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YAMAHA

U

RX-V363

AV Receiver

OWNER'S MANUAL

Black process 45.0° 240.0 LPI

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IMPORTANT SAFETY INSTRUCTIONS

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

- Explanation of Graphical Symbols

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

1 Read Instructions – All the safety and operating instructions should be read before the product is operated.

2 Retain Instructions – The safety and operating instructions should be retained for future reference.

3 Heed Warnings – All warnings on the product and in the operating instructions should be adhered to.

4 Follow Instructions – All operating and use instructions should be followed.

5 Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.

6 Attachments – Do not use attachments not recommended by the product manufacturer as they may cause hazards.

7 Water and Moisture – Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

8 Accessories – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

9 A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

10 Ventilation – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11 Power Sources – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12 Grounding or Polarization – This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13 Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14 Lightning – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

15 Power Lines – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

16 Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

17 Object and Liquid Entry – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

18 Servicing – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19 Damage Requiring Service – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a) When the power-supply cord or plug is damaged,

b) If liquid has been spilled, or objects have fallen into the product,

c) If the product has been exposed to rain or water,

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d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,

e) If the product has been dropped or damaged in any way, and

f) When the product exhibits a distinct change in performance - this indicates a need for service.

20 Replacement Parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

21 Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

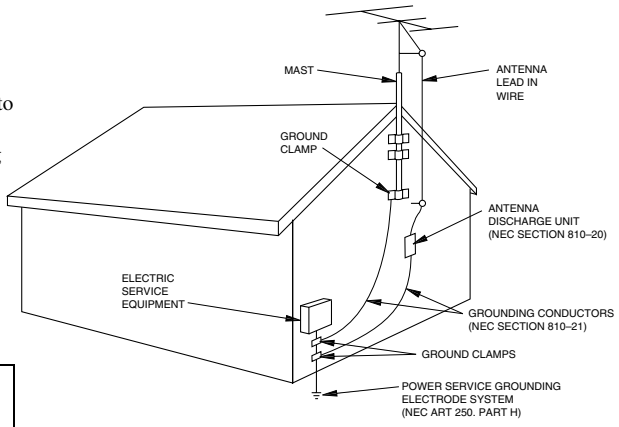
22 Wall or Ceiling Mounting – The unit should be mounted to a wall or ceiling only as recommended by the manufacturer.

23 Heat – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

24 Outdoor Antenna Grounding – If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING


MAST
ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810–20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810–21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250. PART H)

NEC – NATIONAL ELECTRICAL CODE

FCC INFORMATION (for US customers)

1 IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

2 IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

3 NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices.

This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.S.A. 6660 Orangethorpe Ave., Buena Park, CA 90620.

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

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Caution: Read this before operating your unit.

1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
2 Install this sound system in a well ventilated, cool, dry, clean place – away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. Allow ventilation space of at least 30 cm on the top, 20 cm on the left and right, and 20 cm on the back of this unit.
3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
4 Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in a environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
5 Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
   – Other components, as they may cause damage and/or discoloration on the surface of this unit.
   – Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
   – Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.
6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
7 Do not plug in this unit to a wall outlet until all connections are complete.
8 Do not operate this unit upside-down. It may overheat, possibly causing damage.
9 Do not use force on switches, knobs and/or cords.
10 When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cord.
11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
12 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. Yamaha will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.
13 To prevent damage by lightning, keep the power cord and outdoor antennas disconnected from a wall outlet or the unit during a lightning storm.
14 Do not attempt to modify or fix this unit. Contact qualified Yamaha service personnel when any service is needed. The cabinet should never be opened for any reasons.
15 When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the wall outlet.
16 Install this unit near the AC outlet and where the AC power plug can be reached easily.
17 Be sure to read the "Troubleshooting" section on common operating errors before concluding that this unit is faulty.
18 Before moving this unit, press Ⓐ**STANDBY/ON** to set this unit in the standby mode, and disconnect the AC power plug from the wall outlet.
19 VOLTAGE SELECTOR (Asia and General models only)
The VOLTAGE SELECTOR on the rear panel of this unit must be set for your local main voltage BEFORE plugging into the AC wall outlet.
Voltages are 110–120/220–240 V AC, 50/60 Hz.
20 The batteries shall not be exposed to excessive heat such as sunshine, fire or like.
21 Excessive sound pressure from earphones and headphones can cause hearing loss.

WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off by Ⓐ**STANDBY/ON**. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

FOR CANADIAN CUSTOMERS
To prevent electric shock, match wide blade of plug to wide slot and fully insert.
This Class B digital apparatus complies with Canadian ICES-003.

POUR LES CONSOMMATEURS CANADIENS
Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

IMPORTANT
Please record the serial number of this unit in the space below.
MODEL:
Serial No.:
The serial number is located on the rear of the unit.
Retain this Owner's Manual in a safe place for future reference.

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(at the end of this manual)

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About this manual

- ☼ indicates a tip for your operation.
- Some operations can be performed by using either the buttons on the front panel or the ones on the remote control. In case the button names differ between the front panel and the remote control, the button name on the remote control is given in parentheses.
- This manual is printed prior to production. Design and specifications are subject to change in part as a result of improvements, etc. In case of differences between the manual and product, the product has priority.
- "Ⓐ**STANDBY/ON**" or "③**DVD**" (example) indicates the name of the parts on the front panel or the remote control. Refer to the attached sheet or the pages at the end of this manual for the information about each position of the parts.
- The symbol "☞" with page number(s) indicates the corresponding reference page(s).

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Features

Built-in 5-channel power amplifier

- Minimum RMS output power

  [U.S.A. and Canada models]
  (1 kHz, 0.9% THD, 8 Ω)
  Front: 100 W/ch
  Center: 100 W
  Surround: 100 W/ch

  [Other models]
  (1 kHz, 0.9% THD, 6 Ω)
  Front: 100 W/ch
  Center: 100 W
  Surround: 100 W/ch

SCENE select function

- Preset SCENE templates for various situations
- SCENE template customizing capability

Decoders and DSP circuits

- Proprietary Yamaha technology for the creation of multi-channel surround sound
- Compressed Music Enhancer mode
- Dolby Digital decoder
- Dolby Pro Logic/Dolby Pro Logic II decoder
- DTS decoder
- Virtual CINEMA DSP
- SILENT CINEMA™

Sophisticated FM/AM tuner

- 40-station random and direct preset tuning
- Automatic preset tuning

HDMI (High-Definition Multimedia Interface)

- HDMI interface for standard, enhanced or high-definition video (includes 1080p video signal transmission)

DOCK terminal

- DOCK terminal to connect a Yamaha iPod universal dock (such as YDS-10, sold separately) or Bluetooth adapter (such as YBA-10, sold separately).

Other features

- 192-kHz/24-bit D/A converter
- 6 additional input jacks for discrete multi-channel input
- Component video input/output capability
  (3 COMPONENT VIDEO INs and 1 MONITOR OUT)
- iPod controlling capability
- Sleep timer
- Cinema and music night listening modes
- Remote control with preset remote control codes

Manufactured under license from Dolby Laboratories.
"Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

SILENT ™
CINEMA
"SILENT CINEMA" is a trademark of Yamaha Corporation.

"HDMI", the "HDMI" logo and "High-Definition Multimedia Interface" are trademarks or registered trademarks of HDMI Licensing LLC.

iPod™
"iPod" is a trademark of Apple Inc., registered in the U.S. and other countries.

Bluetooth™
Bluetooth is a registered trademark of the Bluetooth SIG and is used by Yamaha in accordance with a license agreement.

"DTS" and "DTS Digital Surround" are registered trademarks of DTS, Inc.

We Want You Listening For A Lifetime

Yamaha and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion – and, most importantly, without affecting your sensitive hearing.

Since hearing damage from loud sounds is often undetectable until it is too late, Yamaha and the Electronic Industries Association's Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.

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Getting started

■ Checking the supplied accessories

Check that you received all of the following parts.

- ❑ **Remote control**
- ❑ **Batteries (2) (AAA, R03, UM-4)**
- ❑ **AM loop antenna**
- ❑ **Indoor FM antenna**

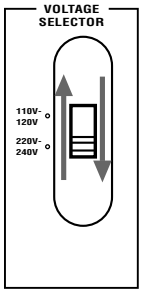
■ VOLTAGE SELECTOR (Asia and General models only)

Caution

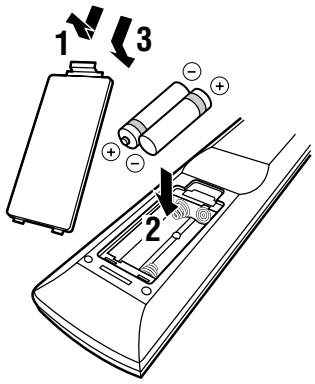
The VOLTAGE SELECTOR on the rear panel of this unit must be set for your local voltage BEFORE plugging the power cable into the AC wall outlet. Improper setting of the VOLTAGE SELECTOR may cause damage to this unit and create a potential fire hazard.

Select the switch position (upper or lower) according to your local voltage using a straight slot screwdriver.

Voltages are 110-120/220-240 V AC, 50/60 Hz.



■ Installing batteries in the remote control



1 Take off the battery compartment cover.

2 Insert the two supplied batteries (AAA, R03, UM-4) according to the polarity markings (+ and –) on the inside of the battery compartment.

3 Snap the battery compartment cover back into place.

Notes

- Change all of the batteries if you notice the following condition: – the operation range of the remote control decreases.
- Do not use an old battery and a new one together.
- Do not use different types of batteries (such as alkaline and manganese batteries) together. Read the packaging carefully as these different types of batteries may have the same shape and color.
- If the batteries have leaked, dispose of them immediately. Avoid touching the leaked material or letting it come into contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.
- Do not throw away batteries with general house waste; dispose of them correctly in accordance with your local regulations.
- If the remote control is without batteries for more than 2 minutes, or if exhausted batteries remain in the remote control, the contents of the memory may be cleared. When the memory is cleared, insert new batteries and set up the remote control code.

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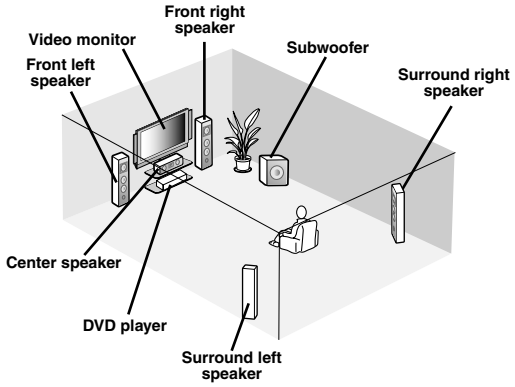
Quick start guide

The following steps describe the easiest way to enjoy DVD movie playback in your home theater.



Step 1: Set up your speakers

☞ P. 5

Step 2: Connect your DVD player and other components

☞ P. 6

Step 3: Turn on the power and press SCENE 1 button

☞ P. 7

Enjoy DVD playback!

Preparation: Check the items

Prepare the following items.

- ❑ **Speakers**
  - ❑ **Front speaker ..... x 2**
  - ❑ **Center speaker ..... x 1**
  - ❑ **Surround speaker ..... x 2**

  Select magnetically shielded speakers. The minimum required speakers are two front speakers.
- ❑ **Active subwoofer ..... x 1**

  Select an active subwoofer equipped with an RCA input jack.
- ❑ **Speaker cable ..... x 5**
- ❑ **Subwoofer cable ..... x 1**

  Select a monaural RCA cable.
- ❑ **DVD player ..... x 1**

  Select DVD player equipped with coaxial digital audio output jack and composite video output jack.
- ❑ **Video monitor ..... x 1**

  Select a TV monitor, video monitor or projector equipped with a composite video input jack.
- ❑ **Video cable ..... x 2**

  Select an RCA composite video cable.
- ❑ **Digital coaxial audio cable ..... x 1**

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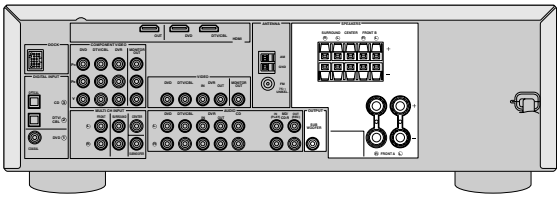
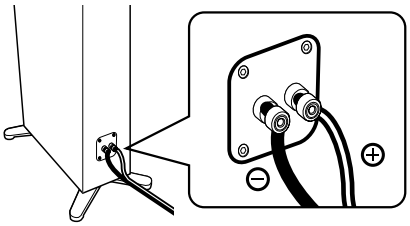
Step 1: Set up your speakers

Place your speakers in the room and connect them to this unit.



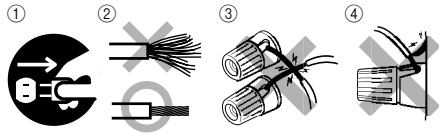
1 Place your speakers and subwoofer in the room.

2 Connect speaker cables to each speaker.



Cables are colored or shaped differently, perhaps with a stripe, groove or ridge. Connect the striped (grooved, etc.) cable to the "+" (red) terminals of your speaker. Connect the plain cable to the "–" (black) terminals.

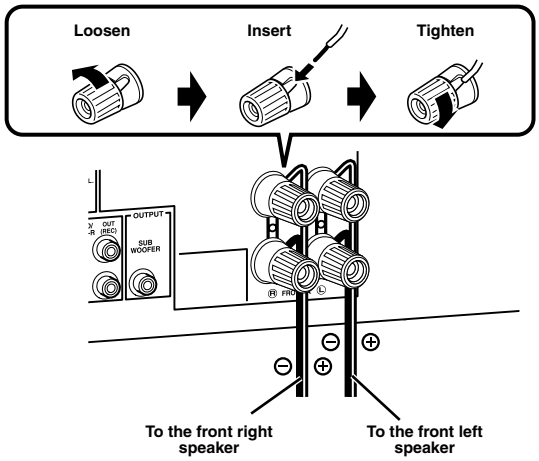
3 Connect each speaker cable to the corresponding speaker terminal on this unit.



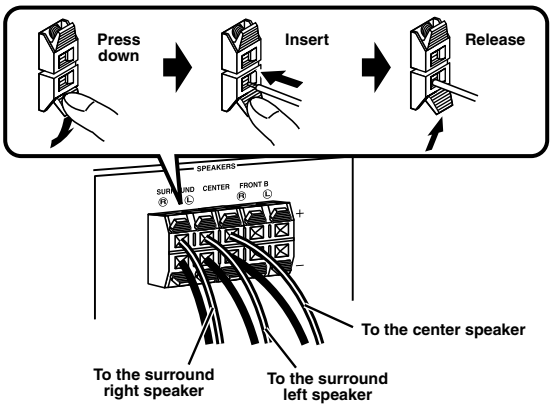
① Make sure that this unit and the subwoofer are unplugged from the AC wall outlets.
② Twist the exposed wires of the speaker cables together to prevent short circuits.
③ Do not let the bare speaker wires touch each other.
④ Do not let the bare speaker wires touch any metal part of this unit.

Be sure to connect the left channel (L), right channel (R), "+" (red) and "–" (black) properly.

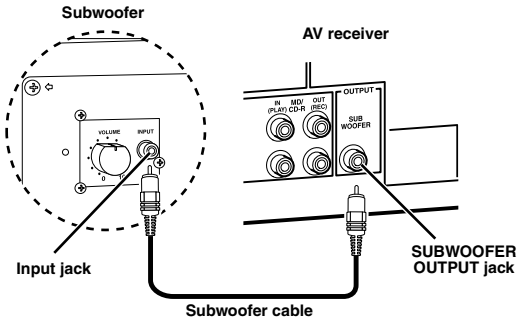
Front speakers



Center and surround speakers



4 Connect the subwoofer cable to the input jack on the subwoofer and the SUBWOOFER OUTPUT jack on this unit.



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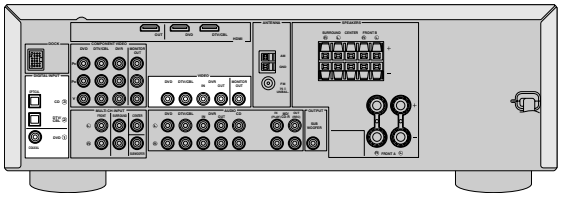
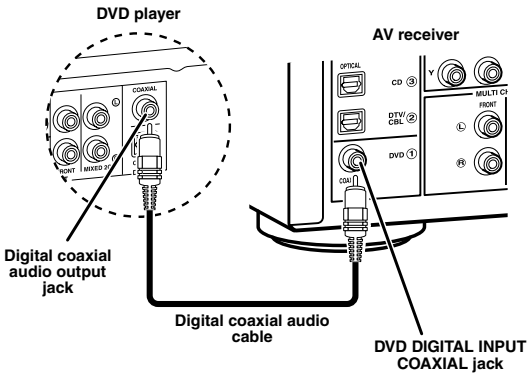
Step 2: Connect your DVD player and other components

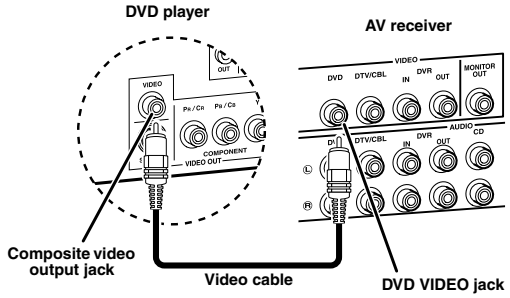


Make sure that this unit and the DVD player are unplugged from the AC wall outlets.

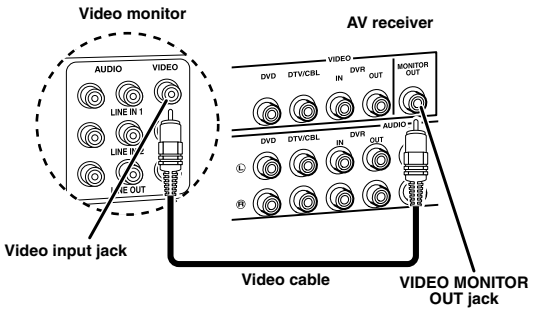
1 **Connect the digital coaxial audio cable to the digital coaxial audio output jack on your DVD player and the DVD DIGITAL INPUT COAXIAL jack on this unit.**



2 **Connect the video cable to the composite video output jack on your DVD player and the DVD VIDEO jack on this unit.**



3 **Connect the video cable to the video input jack on your video monitor and the VIDEO MONITOR OUT jack on this unit.**



4 **Connect the power plug of this unit and other components into the AC wall outlet.**

■ For further connections

- **Using the other kind of speaker combinations** ☞ P. 10
- **Connecting a video monitor and DVD player** ☞ P. 15
- **Connecting a cable TV/satellite tuner and DVD recorder** ☞ P. 15
- **Connecting to the HDMI jacks** ☞ P. 16
- **Connecting to the COMPONENT VIDEO jacks** ☞ P. 16
- **Using the VIDEO AUX jacks on the front panel** ☞ P. 18
- **Connecting a CD player and an MD recorder** ☞ P. 17
- **Connecting a DVD player via analog multi-channel audio connection** ☞ P. 17
- **Connecting an outdoor FM/AM antenna** ☞ P. 19
- **Connecting an iPod/Bluetooth dock** ☞ P. 18

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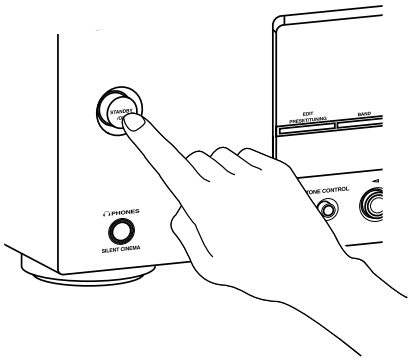
Step 3: Turn on the power and press SCENE 1 button

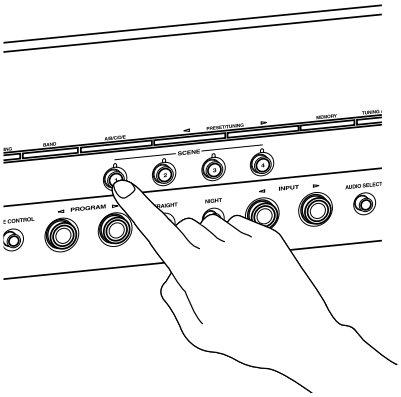
Check the type of the connected speakers.
If the speakers are 6 ohm speakers, set "SP IMP." to "6ΩMIN" before using this unit (see page 12).

1 Turn on the video monitor and then set the input source selector of the video monitor to this unit.

2 Press Ⓐ STANDBY/ON on the front panel.



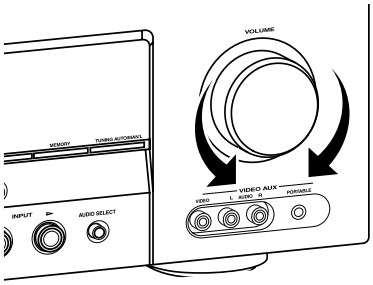
3 Press Ⓟ SCENE 1.
"DVD Viewing" appears in the front panel display, and this unit automatically optimize own status for the DVD playback.



The indicator on the selected SCENE button lights up while this unit is in the SCENE mode.

4 Start playback of the desired DVD on your player.

5 Rotate Ⓗ VOLUME to adjust the volume.



Note

When you change the input source or sound field program, the SCENE mode is deactivated and the indicator on the SCENE button turns off.

■ About SCENE function

Just by pressing one SCENE button, you can turn on this unit and recall your favorite input source and sound field program according to the SCENE template that has been assigned to the SCENE button. The SCENE templates are built combinations of input sources and sound field programs.

If you connect a Yamaha product that has capability of the SCENE control signals, this unit can automatically activate the component and start playback. Refer to the instruction manual of the DVD player for further information.

■ Using the other SCENE buttons

Default SCENE button	The name of the SCENE template and its description
SCENE 1	**DVD Viewing** – input source: DVD – sound field program: STRAIGHT For when you want to listen to a music disc from the connected DVD player as the background music for this room.
SCENE 2	**Disc Listening** – input source: DVD – sound field program: 5ch Stereo For when you want to listen to a music disc from the connected DVD player as the background music for this room.
SCENE 3	**TV Viewing** *1 – input source: DTV/CBL – sound field program: STRAIGHT For when you want to watch a TV program.
SCENE 4	**Radio Listening** *2, *3, *4 – input source: TUNER – sound field program: Music Enh. 5ch For when you want to listen to a music program from the FM radio station

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Notes

*1 You must connect a cable TV or a satellite tuner to this unit in advance. See page 16 for details.

*2 To use the "Radio Listening" template (Case C), you need to connect the supplied FM and AM antennas to this unit in advance. See page 19 for details.

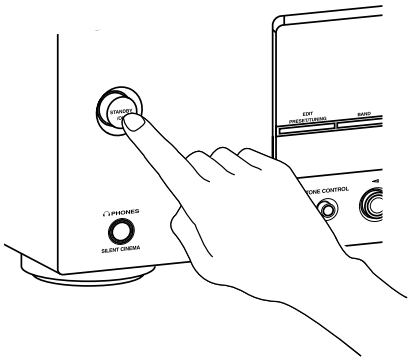
*3 To use the "Radio Listening" template (Case C), you have to tune into the desired radio station. See pages 37 to 39 for the tuning information.

*4 To achieve the best possible reception, orient the connected AM loop antenna, or adjust the position of the end of the indoor FM antenna.

If you cannot find the desired situation, you can select and change the assigned SCENE template for the SCENE buttons. See page 24 for details.

■ After using this unit...

Press Ⓐ STANDBY/ON on the front panel to set this unit to the standby mode.



This unit is set to the standby mode. To turn on this unit from the standby mode, press Ⓐ **STANDBY/ON** (or ⑭ **POWER**) on the front panel. See page 19 for details.

Note

In the standby mode, this unit consumes a small amount of power in order to receive infrared signals from the remote control.

What do you want to do with this unit?

■ Customizing the SCENE templates

- **Using various SCENE templates** ☞ P. 24

■ Using various input sources

- **Basic controls of this unit** ☞ P. 29
- **Enjoying FM/AM radio programs** ☞ P. 37
- **Using your iPod with this unit** ☞ P. 40
- **Using the Bluetooth component** ☞ P. 41

■ Using various sound features

- **Using various sound field programs** ☞ P. 34

■ Adjusting the parameters of this unit

- **Optimizing the speaker parameters for your listening room (BASIC SETUP)** ☞ P. 22
- **Manually adjusting various parameters of this unit** ☞ P. 43
- **Setting the remote control** ☞ P. 51
- **Adjusting the advanced parameters** ☞ P. 54

■ Additional features

- **Automatically turning off this unit** ☞ P. 33

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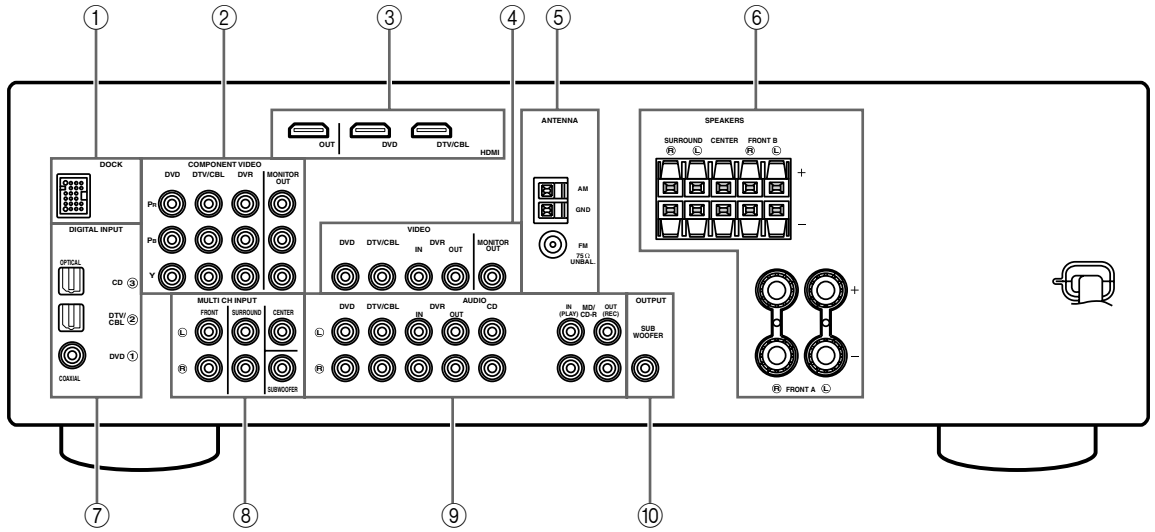
Connections

Rear panel



	Name	See page
①	**DOCK terminal**	18
②	**COMPONENT VIDEO jacks**	16
③	**HDMI jacks**	16
④	**VIDEO jacks**	15
⑤	**ANTENNA terminals**	19
⑥	**SPEAKERS terminals**	11
⑦	**DIGITAL INPUT jacks**	15, 17
⑧	**MULTI CH INPUT jacks**	17
⑨	**AUDIO jacks**	15, 17
⑩	**SUBWOOFER OUTPUT jack**	11

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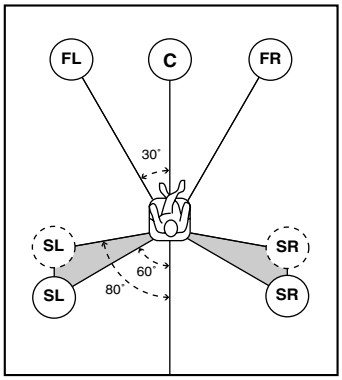
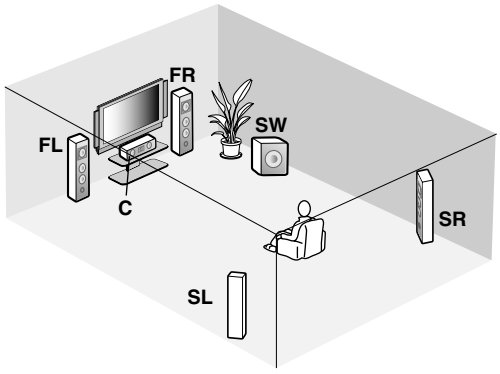
Placing speakers

The speaker layout below shows the speaker setting we recommend. You can use it to enjoy CINEMA DSP and multi-channel audio sources.





Front left and right speakers (FL and FR)

The front speakers are used for the main source sound plus effect sounds. Place these speakers at an equal distance from the ideal listening position. The distance of each speaker from each side of the video monitor should be the same.

Center speaker (C)

The center speaker is for the center channel sounds (dialog, vocals, etc.). If for some reason it is not practical to use a center speaker, you can do without it. Best results, however, are obtained with the full system.

Surround left and right speakers (SL and SR)

The surround speakers are used for effect and surround sounds.

Subwoofer (SW)

The use of a subwoofer with a built-in amplifier, such as the Yamaha Active Servo Processing Subwoofer System, is effective not only for reinforcing bass frequencies from any or all channels, but also for high fidelity sound reproduction of the LFE (low-frequency effect) channel included in Dolby Digital and DTS sources. The position of the subwoofer is not so critical, because low bass sounds are not highly directional. But it is better to place the subwoofer near the front speakers. Turn it slightly toward the center of the room to reduce wall reflections.

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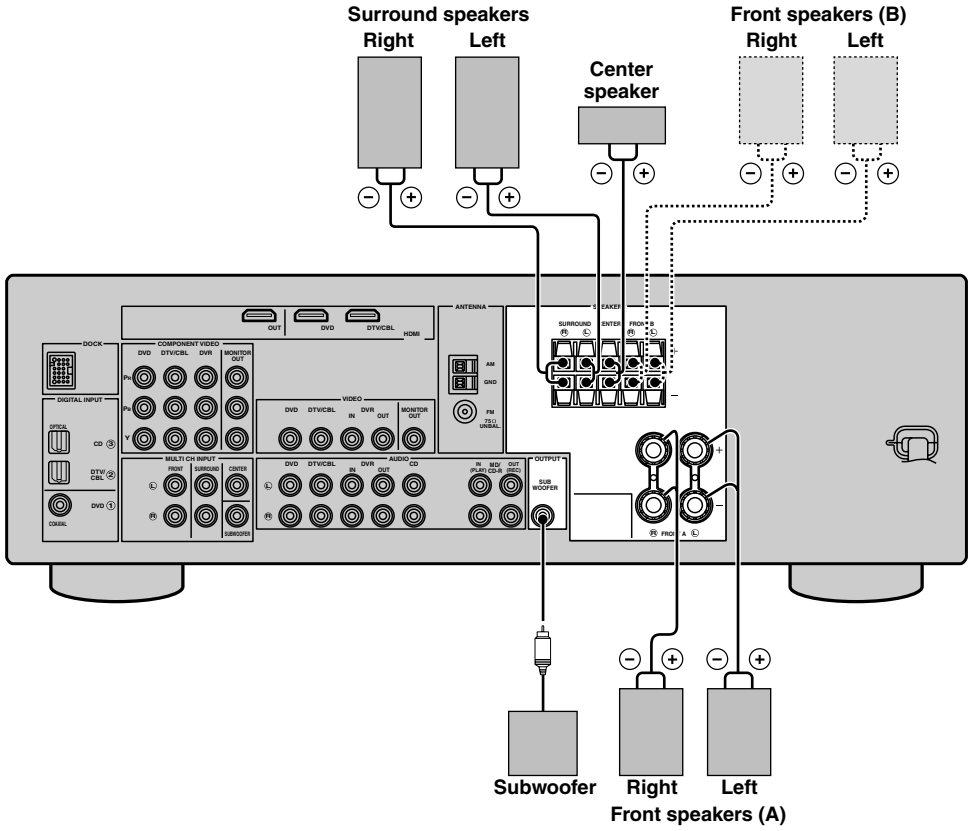
Connecting speakers

Be sure to connect the left channel (L), right channel (R), "+" (red) and "–" (black) properly. If the connections are faulty, this unit cannot reproduce the input sources accurately.

Caution

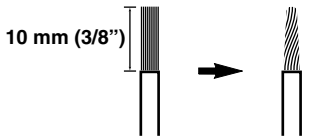
- Use speakers with the specified impedance shown on the rear panel of this unit.
- If you are to use 6 ohm speakers, be sure to set "SP IMP." to "6ΩMIN" before using this unit (see page 12).
- Before connecting the speakers, make sure that this the AC power plug is disconnected from the AC wall outlet.
- Do not let the bare speaker wires touch each other or let them touch any metal part of this unit. This could damage this unit and/or speakers.
- Use magnetically shielded speakers. If this type of speakers still creates the interference with the monitor, place the speakers away from the monitor.



■ Before connecting to the SPEAKERS terminal

A speaker cord is actually a pair of insulated cables running side by side. Cables are colored or shaped differently, perhaps with a stripe, groove or ridges. Connect the striped (grooved, etc.) cable to the "+" (red) terminals of this unit and your speaker. Connect the plain cable to the "–" (black) terminals.

Remove approximately 10 mm (3/8") of insulation from the end of each speaker cable and then twist the bare wires of the cable together to prevent short circuits.



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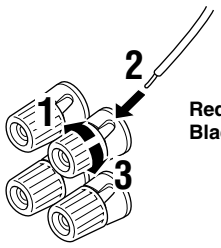
■ Connecting to the FRONT A terminals



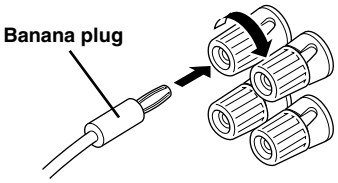
1 Loosen the knob.

2 Insert the bare end of the speaker wire into the slit on the terminal.

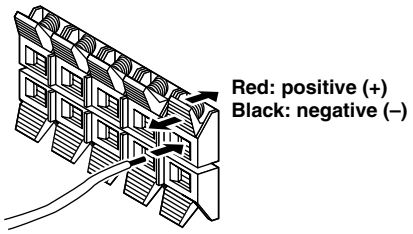
3 Tighten the knob to secure the wire.

Connecting the banana plug (except Europe, Russia, Korea, and Asia models)

The banana plug is a single-pole electrical connector widely used to terminate speaker cables. First, tighten the knob and then insert the banana plug connector into the end of the corresponding terminal.



■ Connecting to the FRONT B, CENTER, and SURROUND terminals



1 Press down the tab.

2 Insert the bare end of the speaker wire into the hole on the terminal.

3 Release the tab to secure the wire.

Setting the speaker impedance (U.S.A. and Canada models only)

Caution

If you are to use 6 ohm speakers, set "SP IMP." to "6ΩMIN" as follows BEFORE using this unit.

1 Make sure this unit is turned off.

See page 19 for details about turning on or off this unit.

2 Press and hold ⒿTONE CONTROL and then press ⒶSTANDBY/ON to turn on this unit.

This unit turns on, an the advanced setup menu appears in the front panel display.

3 Press ⓀPROGRAM ⊲ / ⊳ repeatedly to select "SP IMP.".

The following display appears in the front panel display.

```
SP IMP.- 8ΩMIN
```

4 Press ⓁSTRAIGHT repeatedly to select "6ΩMIN".

The following display appears in the front panel display.

```
SP IMP.- 6ΩMIN
```

5 Press ⒶSTANDBY/ON to confirm your selection and set this unit to the standby mode.

Note

The setting you made is reflected next time you turn on this unit.

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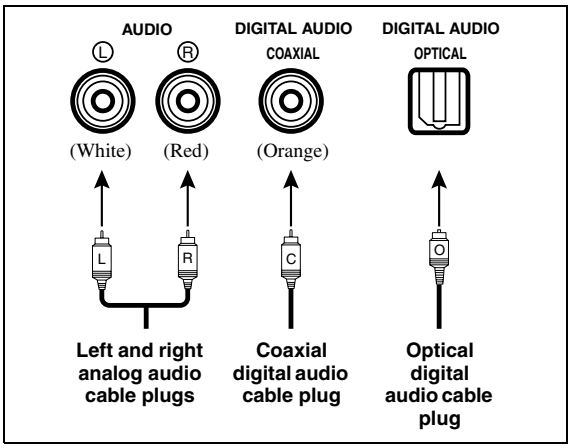
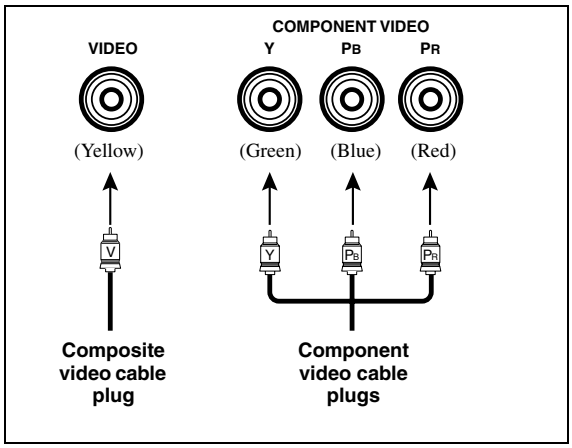
Information on jacks and cable plugs

Audio jacks and cable plugs



Video jacks and cable plugs



■ Audio jacks

This unit has three types of audio jacks. Connection depends on the availability of audio jacks on your other components.

AUDIO jacks

For conventional analog audio signals transmitted via left and right analog audio cables. Connect red plugs to the right jacks and white plugs to the left jacks.

DIGITAL AUDIO COAXIAL jacks

For digital audio signals transmitted via coaxial digital audio cables.

DIGITAL AUDIO OPTICAL jacks

For digital audio signals transmitted via optical digital audio cables.

Notes

- You can use the digital jacks to input PCM, Dolby Digital and DTS bitstreams. All digital input jacks are compatible with digital signals with up to 96 kHz of sampling frequency.
- This unit handles digital and analog signals independently. Thus audio signals input at the digital jacks are not output at the analog AUDIO OUT (REC) jacks.

■ Video jacks

This unit has two types of video jacks. Connection depends on the availability of input jacks on your video monitor.

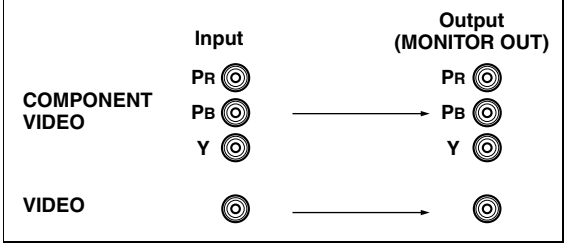
VIDEO jacks

For conventional composite video signals transmitted via composite video cables.

COMPONENT VIDEO jacks

For component signals, separated into the luminance (Y) and chrominance (P_B, P_R) video signals transmitted on separate wires of component video cables.

Video signal flow for MONITOR OUT



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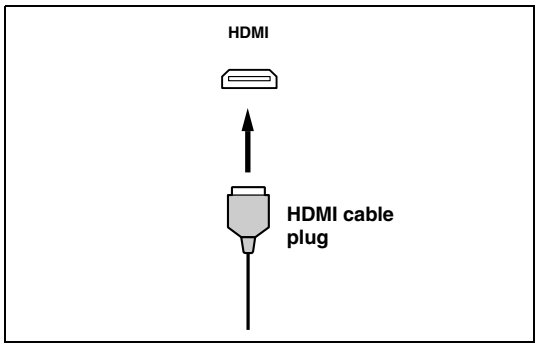
Information on HDMI™

Audio signals input at the HDMI jack are not output from any speaker terminals but output from the connected video monitor.
To enjoy the sound from speakers connected to this unit,
– make an analog or digital connection besides the HDMI connection (see page 16).
– mute the volume of the connected video monitor.

You can play back pictures by connecting your video monitor and video source component to this unit using HDMI connections.
At that time, audio/video signals output from the connected component (such as DVD player etc.) are output to the connected video monitor only when this unit is turned on and set to the input source (DVD or DTV/CBL).
Furthermore, available audio/video signals depend on the specification of the connected video monitor. Refer to the instruction manual of each connected component.

■ HDMI jack and cable plug



- We recommend using an HDMI cable shorter than 5 meters (16 feet) with the HDMI logo printed on it.
- Use a conversion cable (HDMI jack ↔ DVI-D jack) to connect this unit to other DVI components.

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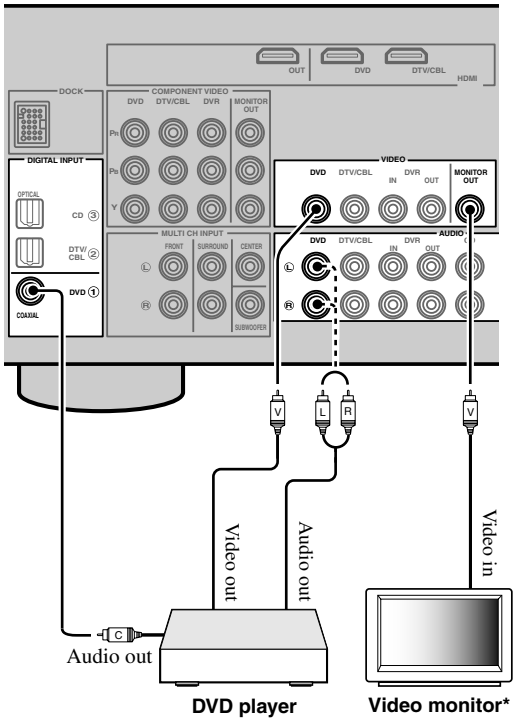
Connecting video components

You can also connect a video monitor, DVD player, digital TV, and cable TV to this unit using the HDMI or COMPONENT VIDEO connection (see page 16).

Make sure that this unit and other components are unplugged from the AC wall outlets.

■ Connecting a video monitor and a DVD player

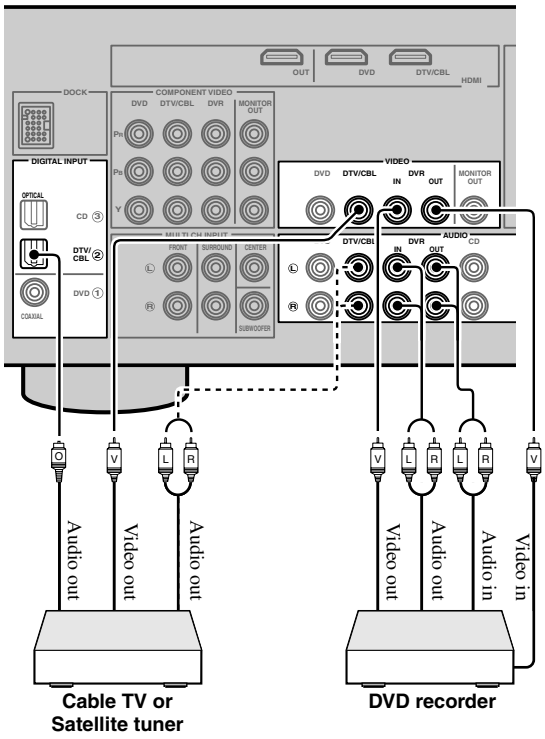


——— indicates recommended connections

- - - - - - - - indicates alternative connections

* When you use the internal tuner of the TV as the input source, connect the digital or analog audio output jacks of the TV and digital or analog audio input jacks of this unit.

■ Connecting a cable TV/satellite tuner and a DVD recorder



——— indicates recommended connections

- - - - - - - - indicates alternative connections

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■ Connecting to the HDMI or COMPONENT VIDEO jacks

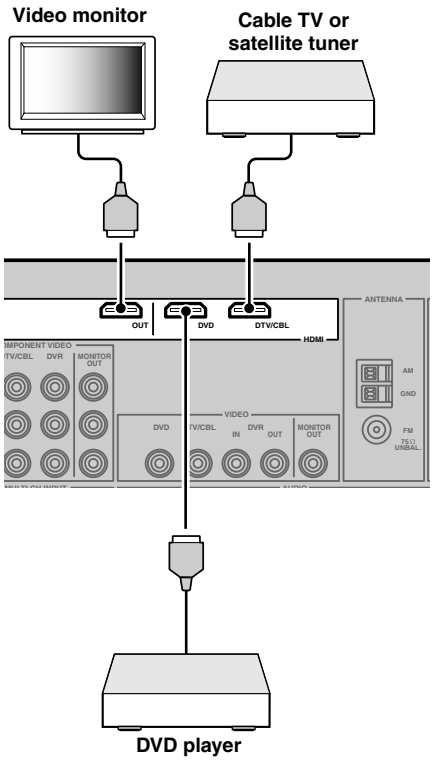
You can enjoy high-quality pictures by connecting your video monitor and video source components to this unit using HDMI or COMPONENT VIDEO connections.

Note

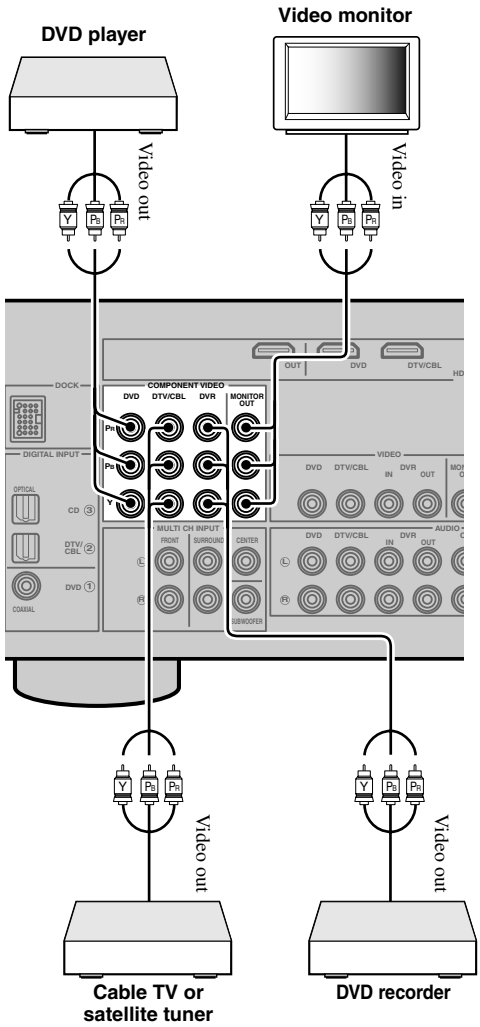
Be sure to connect your video components in the same way you connect your video monitor to this unit. For example, if you connect your video monitor to this unit using an HDMI or COMPONENT VIDEO connection, connect your video components to this unit using the HDMI or COMPONENT VIDEO connection.

HDMI connection

Audio signals input at the HDMI jack are not output from any speaker terminals but output from the connected video monitor.
To enjoy the sound from speakers connected to this unit,
– make an analog or digital connection besides the HDMI connection (see page 15).
– mute the volume of the connected video monitor.



Connecting to the COMPONENT VIDEO jacks



Notes

- Connect the input source components to the HDMI DVD or HDMI DTV/CBL jack to display the video images on the video monitor connected to the HDMI OUT jack.
- Audio/video signals output from the connected component (such as DVD player etc.) are output to the connected video monitor only when this unit is turned on and set to the input source (DVD or DTV/CBL).
- Available audio/video signals depend on the specification of the connected video monitor. Refer to the instruction manual of each connected component.

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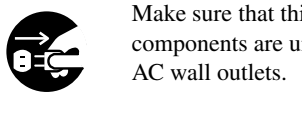
Connecting audio components

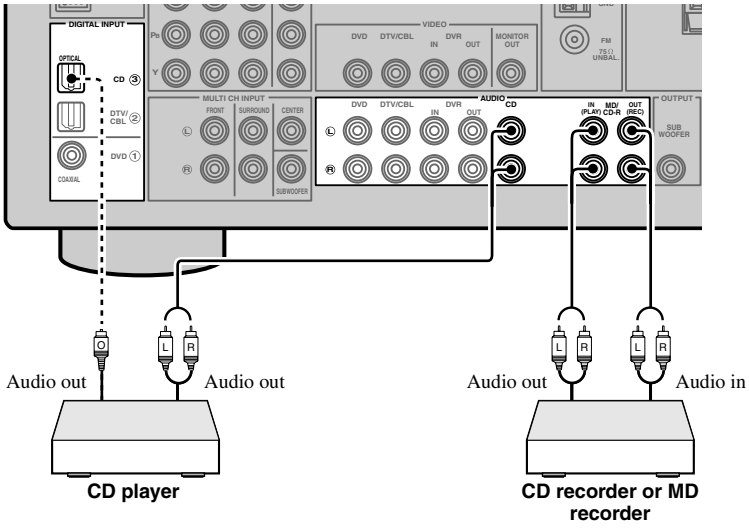
■ Connecting a CD player and a CD recorder/MD recorder

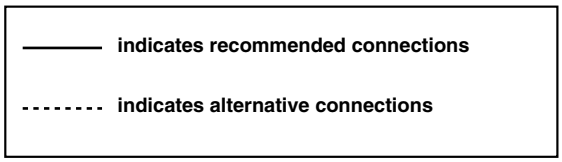
Note

When you connect your CD player via analog and digital connection, priority is given to the signal input at the DIGITAL INPUT jack.



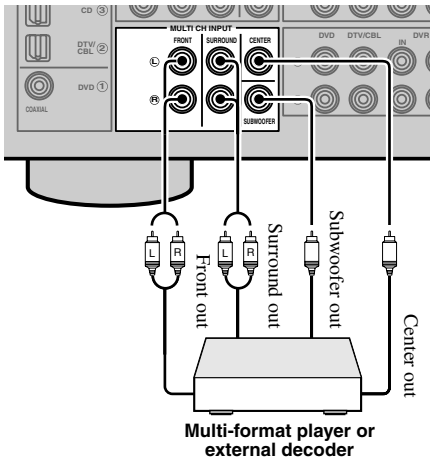
Make sure that this unit and other components are unplugged from the AC wall outlets.





■ Connecting to the MULTI CH INPUT jacks

This unit is equipped with 6 additional input jacks (FRONT L/R, SURROUND L/R, CENTER and SUBWOOFER) for discrete multi-channel input from a multi-format player, external decoder or sound processor. Connect the output jacks on your multi-format player or external decoder to the MULTI CH INPUT jacks. Be sure to match the left and right output jacks to the left and right input jacks for the front and surround channels.



Notes

- When you select the component connected to the MULTI CH INPUT jacks as the input source (see page 30), this unit automatically turns off the digital sound field processor, and you cannot select sound field programs.
- This unit does not redirect signals input at the MULTI CH INPUT jacks to accommodate for missing speakers. We recommend that you connect a 5.1-channel speaker system before using this feature.

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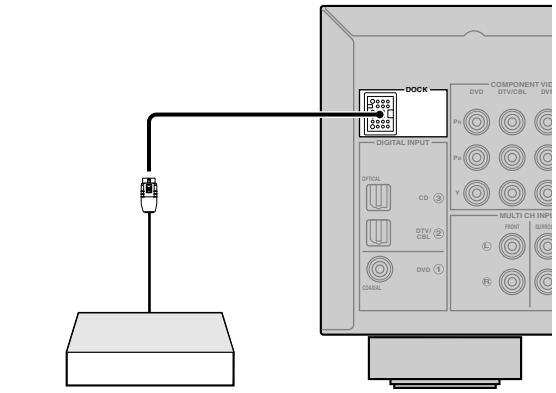
Connecting a Yamaha iPod™ universal dock and Bluetooth™ adapter

Make sure that this unit and other components are unplugged from the AC wall outlets.

This unit is equipped with the DOCK terminal on the rear panel that allows you to connect a Yamaha iPod universal dock (such as YDS-10, sold separately) or Bluetooth adapter (such as YBA-10, sold separately). Connect a Yamaha iPod universal dock or Bluetooth adapter to the DOCK terminal on the rear panel of this unit using its dedicated cable.

Refer to "Using iPod™" on page 40 for playback of your iPod and "Using Bluetooth™ components" on page 41 for playback of your Bluetooth components.



Yamaha iPod universal dock or Bluetooth adapter

Connecting to the VIDEO AUX jacks on the front panel

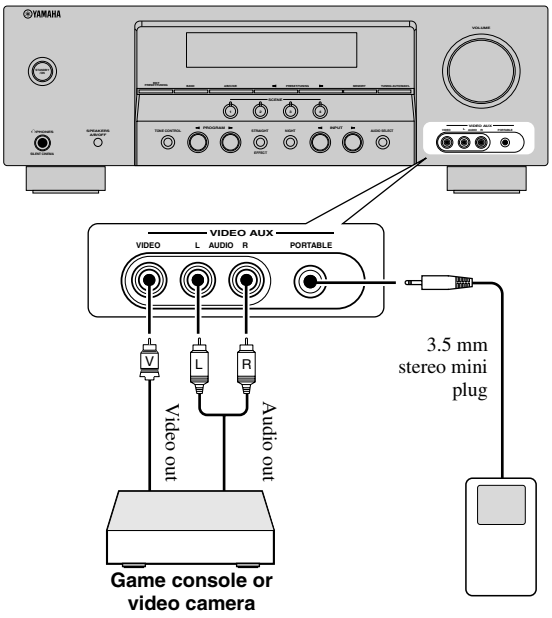
Use the VIDEO AUX jacks on the front panel to connect a game console or a video camera to this unit.

Caution

Be sure to turn down the volume of this unit and other components before making connections.

Notes

- The audio signals input at the DOCK terminal on the rear panel take priority over the ones input at the VIDEO AUX jacks.
- To reproduce the source signals input at these jacks, select "V-AUX" as the input source.
- The audio signals input at the PORTABLE mini jack take priority over the ones input at the AUDIO L/R jacks.



Game console or video camera

Black process 45.0° 240.0 LPI

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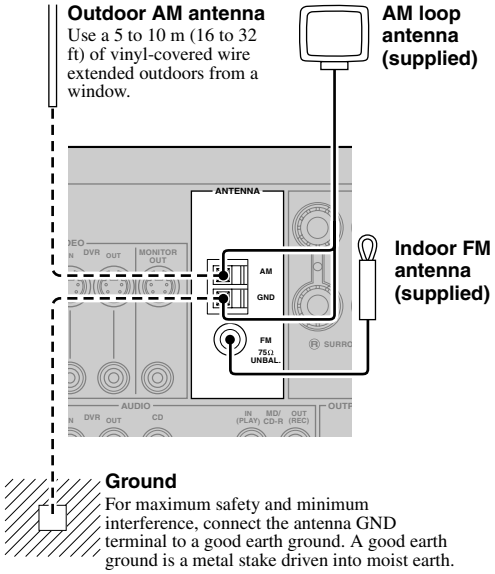
Connecting the FM and AM antennas

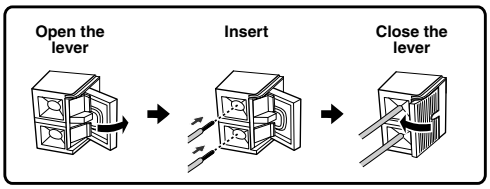
Both FM and AM indoor antennas are supplied with this unit. In general, these antennas should provide sufficient signal strength. Connect each antenna correctly to the designated terminals.

Notes

- The AM loop antenna should be placed away from this unit.
- A properly installed outdoor antenna provides clearer reception than an indoor one. If you experience poor reception quality, install an outdoor antenna. Consult the nearest authorized Yamaha dealer or service center about outdoor antennas.
- The AM loop antenna should always be connected, even if an outdoor AM antenna is connected to this unit.

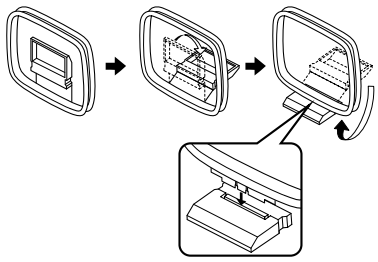

Outdoor AM antenna
Use a 5 to 10 m (16 to 32 ft) of vinyl-covered wire extended outdoors from a window.
AM loop antenna (supplied)
ANTENNA
AM
GND
FM 75Ω UNBAL.
Indoor FM antenna (supplied)
Ground
For maximum safety and minimum interference, connect the antenna GND terminal to a good earth ground. A good earth ground is a metal stake driven into moist earth.

Connecting the wire of the AM loop antenna



The wire of the AM loop antenna does not have any polarity and you can connect either end of the wire to AM or GND terminal.

Assembling the supplied AM loop antenna

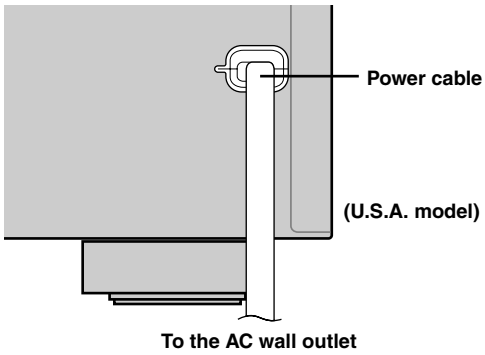


Note

The types of the supplied AM loop antenna is different depending on the models.

Connecting the power cable

Once all connections are complete, plug the power cable into the AC wall outlet.



Turning on and off the power

■ Turning on this unit

Press Ⓐ STANDBY/ON (or ⑭ POWER) to turn on this unit.

When you turn on this unit, there will be a 4 to 5-second delay before this unit can reproduce sound.

■ Set this unit to the standby mode

Press Ⓐ STANDBY/ON (or ⑮ STANDBY) to set this unit to the standby mode.

Note

In the standby mode, this unit consumes a small amount of power in order to receive infrared signals from the remote control.

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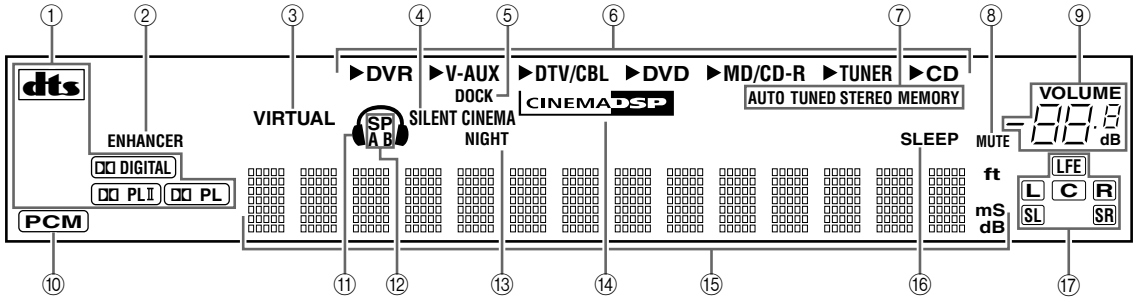
Front panel display



① Decoder indicator
Lights up when any of the decoders of this unit functions.

② ENHANCER indicator
Lights up when the Compressed Music Enhancer mode is selected (see page 34).

③ VIRTUAL indicator
Lights up when Virtual CINEMA DSP is active (see page 36).

④ SILENT CINEMA indicator
Lights up when headphones are connected and a sound field program is selected (see page 36).

⑤ DOCK indicator
- Lights up when you station your iPod in a Yamaha iPod universal dock (such as YDS-10, sold separately) connected to the DOCK terminal of this unit (see page 18) when V-AUX is selected as the input source.
- Flashes while the connected Yamaha Bluetooth adaptor (such as YBA-10, sold separately) and the Bluetooth component is in the paring (see page 18) or the Bluetooth adaptor is searching the Bluetooth component (see page 41).
- Light up while the connected Yamaha Bluetooth adaptor is connected to the Bluetooth component (see page 18).

⑥ Input source indicators
The corresponding cursor lights up to show the currently selected input source.

⑦ Tuner indicators
Lights up when this unit is in the FM or AM tuning mode (see page 37).

⑧ MUTE indicator
Flashes while the MUTE function is on (see page 30).

⑨ VOLUME level indicator
Indicates the current volume level.

⑩ PCM indicator
Lights up when this unit is reproducing PCM (Pulse Code Modulation) digital audio signals.

⑪ Headphones indicator
Lights up when headphones are connected (see page 30).

⑫ SP A B indicators
Light up according to the set of front speakers selected (see page 29).

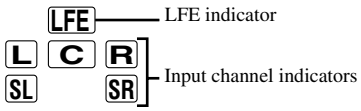
⑬ NIGHT indicator
Lights up when you select a night listening mode (see page 31).

⑭ CINEMA DSP indicator
Lights up when you select a sound field program (see page 34).

⑮ Multi-information display
Shows the name of the current sound field program and other information when adjusting or changing settings.

⑯ SLEEP indicator
Lights up while the sleep timer is on (see page 33).

⑰ Input channel and speaker indicators



LFE indicator
Lights up when the input signal contains the LFE signal.

Input channel indicators
Indicate the channel components of the current digital input signal.

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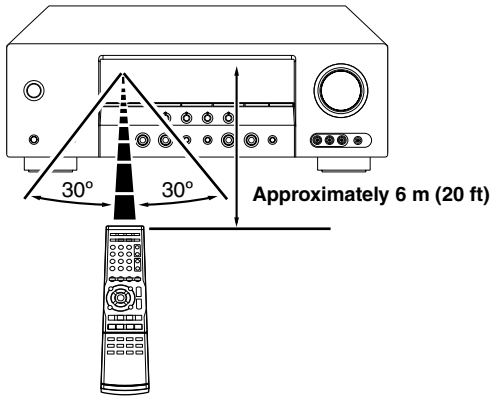
■ Using the remote control

The remote control transmits a directional infrared ray. Be sure to aim the remote control directly at the remote control sensor on this unit during operation.



① Infrared window

Outputs infrared control signals. Aim this window at the component you want to operate.

To set the remote control codes for other components, see page 53.

Notes

- Do not spill water or other liquids on the remote control.
- Do not drop the remote control.
- Do not leave or store the remote control in the following types of conditions:
  – places of high humidity, such as near a bath
  – places of high temperature, such as near a heater or stove
  – places of extremely low temperatures
  – dusty places
- To set the remote control codes for other components, see page 53.

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Basic setup

The "BASIC SETUP" feature is a useful way to set up your system quickly and with minimal effort.

Notes

- Make sure you disconnect your headphones from this unit.
- If you wish to configure this unit manually using more precise adjustments, use the detailed parameters in "SOUND MENU" (see page 45).
- Altering any parameters in "BASIC SETUP" resets all parameters manually adjusted in "SOUND MENU" (see page 45).
- Initial settings are indicated in bold under each parameter.
- Press ⑧**RETURN** on the remote control to return to the previous menu level.

1 Press ④AMP on the remote control.

2 Press ⑱MENU.

"BASIC SETUP" appears in the front panel display.

```
▪BASIC SETUP
```

3 Press ⑦ENTER to enter "BASIC SETUP".

"ROOM" appears in the front panel display.

```
ROOM:  S >M  L
```

4 Press ⑦◁ / ▷ to select the desired setting.

Select the size of the room where you have installed your speakers. In general, the room sizes are defined as follows:

Choices: S, **M**, L

[U.S.A. and Canada models]
S (small) 16 x 13 ft, 200 ft^2 (4.8 x 4.0 m, 20 m^2)
M (medium) 20 x 16 ft, 300 ft^2 (6.3 x 5.0 m, 30 m^2)
L (large) 26 x 19 ft, 450 ft^2 (7.9 x 5.8 m, 45 m^2)

[Other models]
S (small) 3.6 x 2.8 m, 10 m^2
M (medium) 4.8 x 4.0 m, 20 m^2
L (large) 6.3 x 5.0 m, 30 m^2

5 Press ⑦▽ to select "SUBWOOFER" and then ⑦◁ / ▷ to select the desired setting.

```
SUBWOOFER▪▪YES
```

Choices: **YES**, NONE
- Select "YES" if you have a subwoofer in your system.
- Select "NONE" if you do not have a subwoofer in your system.

6 Press ⑦▽ to select "SPEAKERS" and then ⑦◁ / ▷ to select the number of speakers connected to this unit.

```
SPEAKERS▪▪5spk
```

Choice	Display	Speakers
2spk	L R	Front L/R
3spk	L C R	Front L/R, Center
4spk	L R / SL SR	Front L/R, Surround L/R
5spk	L C R / SL SR	Front L/R, Center, Surround L/R

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7 Press ⑦▽ to select "SET" and then ⑦◁ / ▷ to select the desired setting.

Choices: SET, **CANCEL**
- Select "SET" to apply the settings you made.
- Select "CANCEL" to cancel the setup procedure without making any changes.

You can also press ⑱**MENU** to cancel the setup procedure.

8 Press ⑦ENTER to confirm your selection.

If you selected "SET" in step 7, each speaker outputs a test tone twice in turn. "CHECK:TestTone" appears in the front panel display for a few seconds and then "CHECK OK?" appears in the front panel display.

- Check the speaker connections (see page 5) and adjust the "SPEAKERS" settings back in step 6, if necessary.
- The indicator of the speaker currently outputting the test tone flashes in the front panel display.

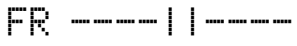
9 Press ⑦◁ / ▷ to select the desired setting.

Choices: **YES**, NO
- Select "YES" to complete the setup procedure if the test tone levels from each speaker were satisfactory.
- Select "NO" to proceed to the speaker level adjustment menu to balance the output level of each speaker.

10 Press ⑦ENTER to confirm your selection.
- If you selected "YES" in step 9, the setup procedure is completed and the display returns to the top set menu display. Press ⑱**MENU** to exit from "BASIC SETUP".
- If you selected "NO" in step 9, the front speaker level adjustment display appears in the front panel display.

11 Press ⑦△ / ▽ to select a speaker and then ⑦◁ / ▷ to adjust the balance.

The selected speaker and the front left speaker (or the surround left speaker) output a test tone in turn.
- Press ⑦▷ to increase the value.
- Press ⑦◁ to decrease the value.



- Select "FR" to adjust the balance between the front left and right speakers.
- Select "C" to adjust the balance between the front left and center speakers.
- Select "SL" to adjust the balance between the front left and surround left speakers.
- Select "SR" to adjust the balance between the surround left and surround right speakers.
- Select "SWFR" to adjust the balance between the front left speaker and the subwoofer.

Note

The available speaker channels differ depending on the setting of the speakers.

12 Press ⑱MENU to exit from "BASIC SETUP".

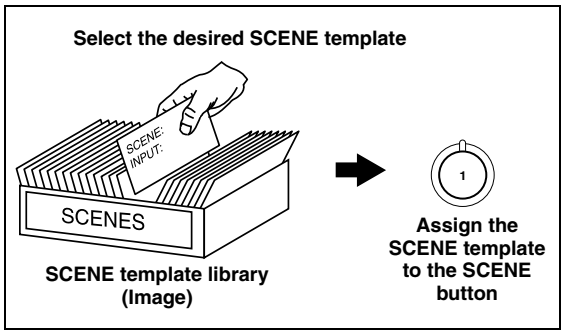
Black process 45.0° 240.0 LPI

Selecting the SCENE templates

This unit is equipped with 13 preset SCENE templates for various situations of using this unit. As the initial factory setting, the following SCENE templates are assigned to each SCENE button:

SCENE 1: DVD Viewing
SCENE 2: Disc Listening
SCENE 3: TV Viewing
SCENE 4: Radio Listening

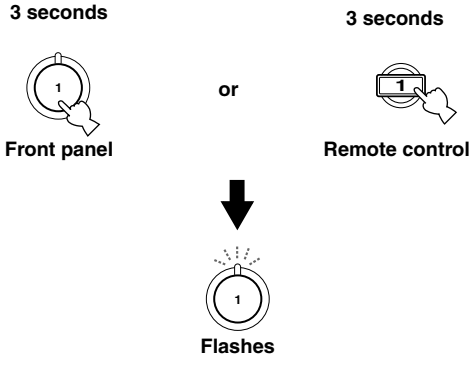
If you want to use other SCENE templates, you can select the desired SCENE templates from the SCENE template library and assign the templates to the selected SCENE buttons on the front panel and the remote control.



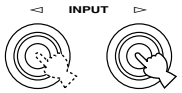
Selecting the desired SCENE template

1 Press and hold the desired Ⓟ SCENE (or ⑤ SCENE) button for 3 seconds.

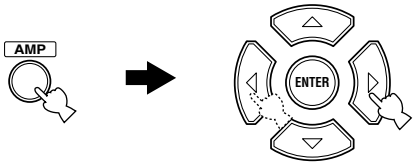
The indicator on the selected SCENE button on the front panel starts to flash, and the name of currently assigned SCENE template appears in the front panel display.

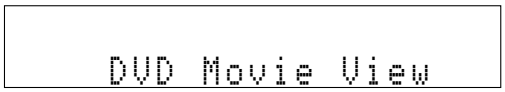


2 Press Ⓝ INPUT ⊲ / ⊳ (or press ④ AMP and then ⑦ ⊲ / ⊳) to select the desired template.



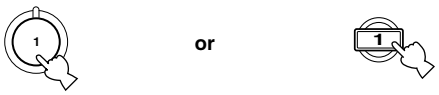
or





3 Press the Ⓟ SCENE (or ⑤ SCENE) button again to confirm the selection.

The selected SCENE template is assigned to the button.



To cancel the procedure, press ④ AMP and then ⑧ RETURN.

Note

Once the desired SCENE templates are assigned to the corresponding SCENE buttons, you may need to set the input source of the SCENE template on the remote control. See page 28 for details.

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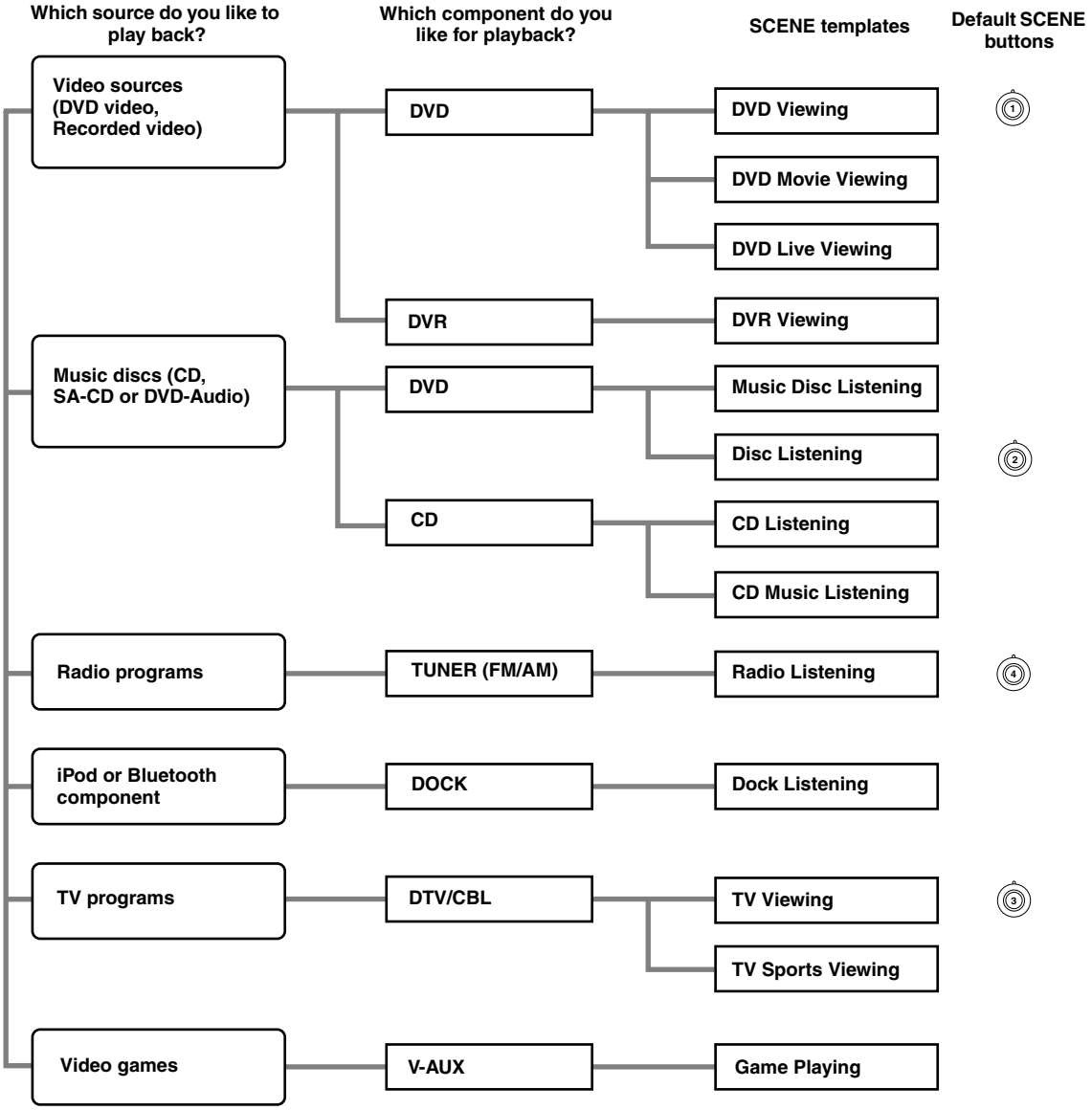
■ Which SCENE template would you like to select?



Note

When iPod is connected to the Yamaha iPod universal dock or a Bluetooth component is connected to the Bluetooth adapter, this unit plays back the audio sources input at the DOCK terminal.

You can create your original SCENE templates by editing the preset SCENE templates. See page 27 for details.

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■ Preset SCENE template descriptions

SCENE template	
Features	
Input source	**Playback mode**

DVD Viewing (SCENE 1 as the default setting)	
Select this SCENE template when you play back general contents on your DVD player.	
DVD	**STRAIGHT**

DVD Movie Viewing	
Select this SCENE template when you play back movies on your DVD player.	
DVD	**Movie Dramatic**

DVD Live Viewing	
Select this SCENE template when you enjoy music live video on your DVD player.	
DVD	**Pop/Rock**

DVR Viewing	
Select this SCENE template when you play back movies on your digital video recorder.	
DVR	**Movie Dramatic**

Music Disc Listening	
Select this SCENE template when you play back music discs on your DVD player.	
DVD	**2ch Stereo**

Disc Listening (SCENE 2 as the default setting)	
Select this SCENE template when you play back music sources as the back ground music on your DVD player.	
DVD	**5ch Stereo**

CD Listening	
Select this SCENE template when you play back music source as the back ground music on your CD player.	
CD	**5ch Stereo**

CD Music Listening	
Select this SCENE template when you play back music discs on your CD player.	
CD	**2ch Stereo**

Radio Listening (SCENE 4 as the default setting)	
Select this SCENE template when you enjoy FM or AM radio programs.	
TUNER	**Music Enh. 5ch**

Dock Listening	
Select this SCENE template when you play back music on your iPod stationed in a Yamaha iPod universal dock or Bluetooth component that is connected to the Bluetooth adapter.	
DOCK	**Music Enh. 5ch**

TV Viewing (SCENE 3 as the default setting)	
Select this SCENE template when you enjoy TV programs.	
DTV/CBL	**STRAIGHT**

TV Sports Viewing	
Select this SCENE template when you enjoy sports programs on TV.	
DTV/CBL	**TV Sports**

Game Playing	
Select this SCENE template when you play video games.	
V-AUX	**Game**

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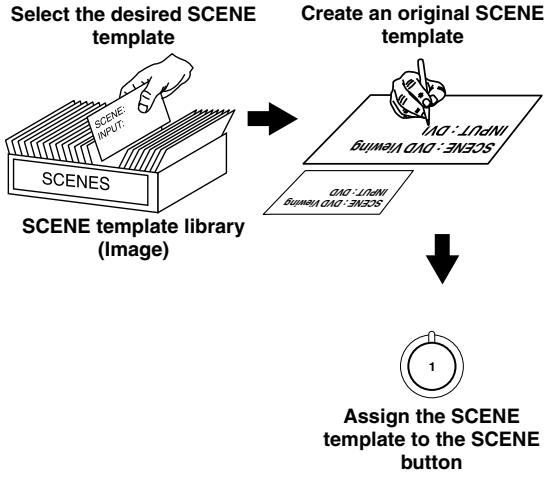
Creating your original SCENE templates

You can create your original SCENE templates for each SCENE button. You can refer to the preset 13 SCENE templates to create the original SCENE templates.

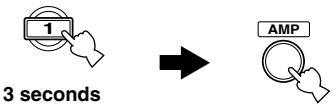
■ Customizing the preset SCENE templates

Use this feature to customize the preset SCENE templates.


Select the desired SCENE template
Create an original SCENE template
SCENES
SCENE template library (Image)
Assign the SCENE template to the SCENE button

1 Press and hold the desired ⑤**SCENE** button for 3 seconds and then press ④**AMP**.

The SCENE template customizing display appears on the front panel display.



Note

When the SCENE template you want to customize is not assigned to any of the ⑤**SCENE** button, press ⑦◁ / ▷ repeatedly to recall the desired SCENE template (see page 24).

2 Press ⑦△ / ▽ to select the desired parameter of the SCENE template and then ⑦◁ / ▷ to select the desired value of the selected parameter.

You can adjust the following parameters for a SCENE template:

- The input source component
- The active sound field programs or STRAIGHT mode
- The night listening mode setting (see page 31)
  - SYSTEM: Keeps the current night listening mode.
  - CINEMA: Sets the night listening mode to the CINEMA mode.
  - MUSIC: Sets the night listening mode to the MUSIC mode.

3 Press the ⑤**SCENE** button again to confirm the edit.

- An asterisk mark (*) appears by the name of the original SCENE template.
- To cancel the procedure, press ④**AMP** and then ⑧**RETURN**.

Notes

- After changing the assignment of the SCENE template to the ⑤**SCENE** buttons, you may need to set the input source of the SCENE template on the remote control. See page 28 for details.
- You can create a customized SCENE template for each ⑤**SCENE** button, and if you create another customized SCENE template, this unit overwrites the old customized SCENE template with the new one.
- The customized SCENE template is only available for the assigned ⑤**SCENE** button.

■ Renaming the SCENE templates

Select SCENE in step 2 of "Customizing the preset SCENE templates" and then press ⑦ENTER.

- Press ⑦△ / ▽ to select the desired character.
- Press ⑦◁ / ▷ to place "_" (underscore) under the space or the desired character.
- Press ⑧**RETURN** to cancel the new name.
- Press ⑦**ENTER** to confirm the new name.

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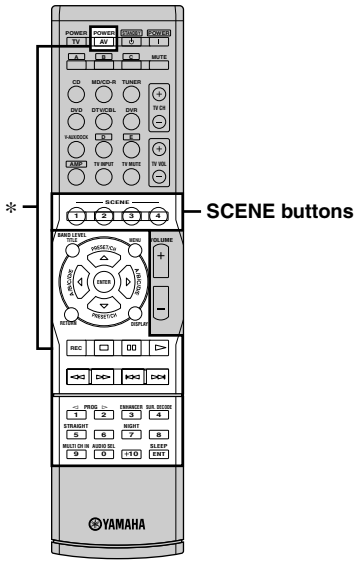
Using remote control on the SCENE feature

■ Controlling the input source components in the SCENE mode

You can operate both this unit and the input source component by using the remote control. You must set the appropriate remote control code for each input source in advance (see page 53).

1 Press the desired ⑤SCENE button on the remote control.

2 Press the desired buttons in the * area below to control the input source component of the selected SCENE template.



Note

* These buttons control the input source component. See page 51 for details of the function of each button.

■ Setting input source of the customized SCENE template on the remote control

If you customize the input source of the selected SCENE template, you must set the input source of the SCENE template on the remote control to operate the input source component correctly.

Press and hold the ⑤SCENE button and the desired input selector button (③) for 3 seconds.

Press the ⑤SCENE button again to operate the input source component.

Black process 45.0° 240.0 LPI

Playback

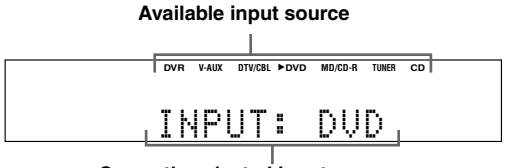
Caution
Extreme caution should be exercised when you play back CDs encoded in DTS. If you play back a CD encoded in DTS on a DTS-incompatible CD player, you will only hear some unwanted noise that may damage your speakers. Check whether your CD player supports CDs encoded in DTS. Also, check the sound output level of your CD player before you play back a CD encoded in DTS.

Basic operations

1 Turn on the video monitor connected to this unit.

2 Press ⓘ SPEAKERS repeatedly to select the front speakers you want to use.
The respective speaker indicators lights up in the front panel display.

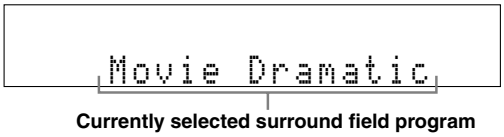
3 Press ⓝ INPUT ◁ / ▷ repeatedly (or press one of the input selector buttons (③)) to select the desired input source.
The name of the currently selected input source appears in the front panel display for a few seconds.



4 Start playback on the selected component or select a broadcast station.
- Refer to the operating instructions for the source component.
- See page 37 for details about FM or AM tuning instructions.

5 Rotate Ⓗ VOLUME (or press ⑲ VOLUME +/–) to adjust the volume to the desired output level.

6 Press Ⓚ PROGRAM ◁ / ▷ (or press ④ AMP and then press ⑩ PROG ◁ / ▷) repeatedly to select the desired sound field program.
The name of the selected sound field program appears in the front panel display.
See page 34 for details about sound field programs.



Notes
- Choose a sound field program based on your listening preference, not merely on the name of the program.
- When you select an input source, this unit automatically selects the last sound field program used with the corresponding input source.
- Sound field programs cannot be selected when the component connected to the MULTI CH INPUT jacks is selected as the input source (see page 30).
- When PCM signals with a sampling frequency higher than 48 kHz are input, this unit is automatically set to the "STRAIGHT" mode (see page 36).
- To display information about the currently selected input source in the front panel display, see page 32 for details.

■ Guide to contents

When you want to...	See page
Adjust the tonal quality of the front speakers	31
Edit parameters of sound field programs	35
Enjoy the sources which have wide dynamic range at night	31
Use headphones	30
Select a decoder to play back sources with	35
Set this unit to the standby mode automatically	33

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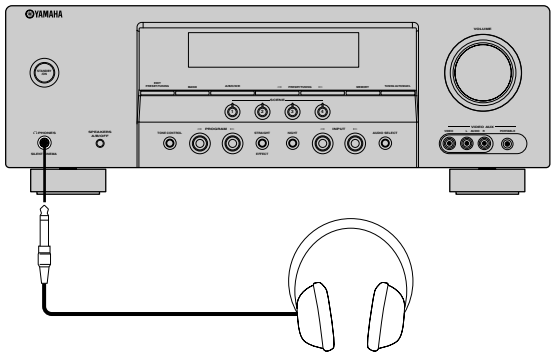
Additional operations

■ Using your headphones

Connect a pair of headphones with a stereo analog audio cable plug to the PHONES jack on the front panel.



When you select a sound field program, SILENT CINEMA mode is automatically activated (see page 36).

Notes

- When you connect headphones, no signals are output at the speaker terminals.
- All Dolby Digital and DTS audio signals are mixed down to the left and right headphone channels.

■ Muting the audio output

Press ⑯MUTE to mute the audio output.

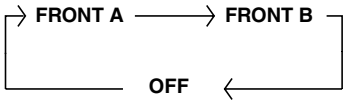
Press ⑯**MUTE** again to resume the audio output.

- You can also rotate Ⓗ**VOLUME** (or press ⑲**VOLUME +/–**) to resume the audio output.
- You can adjust the muting level by using "MUTE TYP." in "SOUND MENU" (see page 48).
- The MUTE indicator flashes in the front panel display when the audio output is muted and disappears from the front panel display when the audio output is resumed.

■ Selecting the front speaker set

Press ⏻SPEAKERS repeatedly to turn on or off the set of front speakers connected to the FRONT A or FRONT B speaker terminals.

The active front speaker set changes as follows:



Note

Turn off the volume level of this unit when you switch the front speaker setting.

■ Using the Zone B feature

When you set "FRONT B" to "ZONE B" (see page 45), you can use the speakers connected to the FRONT B speaker terminals in another room (Zone B).

Press ⏻SPEAKERS on the front panel repeatedly to turn on or off the Zone B speakers.

When you activate the Zone B speakers, all the speakers in the main room are muted.

Notes

- You cannot activate both the main room and Zone B speakers simultaneously.
- If you select CINEMA DSP sound field program and activate the Zone B speakers, Virtual CINEMA DSP activates automatically (see page 36).

■ Selecting the component connected to the MULTI CH INPUT jacks as the input source

Use this feature to select the component connected to the MULTI CH INPUT jacks (see page 17) as the input source.

Press ⓃINPUT ◁ / ▷ repeatedly (or press ④AMP and then press ⑫MULTI CH IN) so that "MULTI CH" appears in the front panel display.

Use "MULTI CH SET" menu in "INPUT MENU" to set the parameter for MULTI CH INPUT (see page 49).

Notes

- The input signals are amplified and output directly without sound processing. Therefore, you cannot activate sound field programs, the night listening mode, etc. while MULTI CH is selected as the input source.
- When headphones are used, signals are output only from the front left and right channels.

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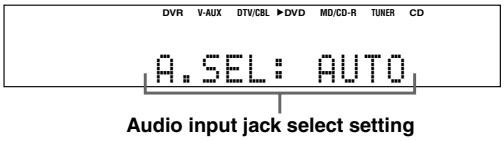
■ Selecting audio input jacks (AUDIO SELECT)

This unit comes with a variety of input jacks. Use this feature (audio input jack select) to switch the input jack assigned to an input source when more than one jacks are assigned to an input source.

- We recommend setting audio input jack select to "AUTO" in most cases.
- You can adjust the default audio input jack select of this unit by using "AUDIO SELECT" in "OPTION MENU" (see page 50).

Press ⓄAUDIO SELECT (or press ④AMP and then ⑬AUDIO SEL) repeatedly to select the desired Audio input jack select setting.



Audio input jack select setting

AUTO	Automatically selects input signals in the following order: (1) Digital signals (2) Analog signals
ANALOG	Selects only analog signals. If no analog signals are input, no sound is output.

Note

This feature is not available when no digital input jack are assigned to the currently selected input source.

■ Selecting the night listening mode

The night listening modes are designed to improve listenability at lower volumes or at night.

1 Press ④AMP and then press ㉓NIGHT repeatedly to select "NIGHT:CINEMA" or "NIGHT:MUSIC".

Choices: NIGHT:CINEMA, NIGHT:MUSIC, NIGHT OFF

- Select "NIGHT:CINEMA" to reduce the dynamic range of film soundtracks and make dialog easier to hear at lower volumes.
- Select "NIGHT:MUSIC" to preserve ease-of-listening for all sounds.
- Select "NIGHT OFF" if you do not want to use this feature.

When a night listening mode is selected, the NIGHT indicator lights up in the front panel display.

2 Press ⑦◁ / ▷ to adjust the effect level while "NIGHT:CINEMA" or "NIGHT:MUSIC" is displayed in the front panel display.

Choices: MIN, **MID**, MAX

- Select "MIN" for minimum compression.
- Select "MID" for standard compression.
- Select "MAX" for maximum compression.

"NIGHT:CINEMA" and "NIGHT:MUSIC" adjustments are stored independently.

Notes

- You cannot use the night listening modes in the following cases:
  - when the component connected to the MULTI CH INPUT jacks is selected as the input source.
  - when headphones are connected to the PHONES jack.
  - when the sampling frequency of the input sources are higher than 96 kHz.
- The night listening modes may vary in effectiveness depending on the input source and surround sound settings you use.

■ Adjusting the tonal quality

Use this feature to adjust the balance of bass and treble for the front left and right speaker channels.

Press ⒿTONE CONTROL repeatedly to select "BASS" or "TREBLE" and then press ⓀPROGRAM ◁ / ▷ to adjust the corresponding frequency response level.

Control range: –10 to +10 dB
Control step: 2

- Select "BASS" to adjust the low-frequency response.
- Select "TREBLE" to adjust the high-frequency response.

Notes

- Speaker and headphone adjustments are stored independently.
- If you increase or decrease the high-frequency or low-frequency sound to an extreme level, the tonal quality of the surround speakers may not match that of the front left and right speakers.

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■ Adjusting speaker levels during playback

You can adjust the output level of each speaker while listening to a music source.

Note

This operation will override the level adjustment made in "SP LEVEL" (see page 46).

1 Press ④AMP and then press ⑥LEVEL repeatedly to select the speaker you want to adjust.

Display	Adjusted speaker
FRONT L	Front left speaker
FRONT R	Front right speaker
CENTER	Center speaker
SWFR	Subwoofer
SUR.L	Surround left speaker
SUR.R	Surround right speaker

Once you press ⑥**LEVEL** on the remote control, you can also select the speaker by pressing ⑦△ / ▽.

2 Press ⑦◁ / ▷ on the remote control to adjust the speaker output level.

The control range is from –10 dB to +10 dB.

You can press ⒹA/B/C/D/E to select a speaker and then ⒺPRESET/TUNING ◁ / ▷ to adjust the speaker output level.

■ Displaying the signal information

You can display the format, sampling frequency, channel, bit rate and flag data of the current input signal.

1 Press ④AMP and then press ⑱MENU on the remote control.

"BASIC SETUP" appears in the front panel display.

▪BASIC SETUP

2 Press ⑦△ / ▽ repeatedly to select "SIGNAL INFO" and then press ⑦ENTER.

3 Press ⑦△ / ▽ to switch the displayed information.

The following information about the input source appears in the front panel display.

Display	Description
Format	Signal format.
Sampling frequency	The number of samples per second taken from a continuous signal to make a discrete signal.
Channel	The number of source channels in the input signal (front/surround/LFE).
Bit rate	The number of bits passing a given point per second.
Flag data	Flag data encoded in DTS, Dolby Digital, or PCM signals that cue this unit to automatically switch decoders.

4 Press ⑱MENU to exit.

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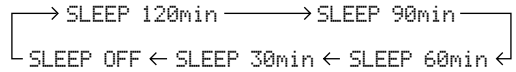
■ Using the sleep timer

Use this feature to automatically set this unit to the standby mode after a certain amount of time.

Press ④AMP and then press ㉕SLEEP repeatedly to set the amount of time.

Each time you press **㉕SLEEP**, the front panel display changes as shown below.



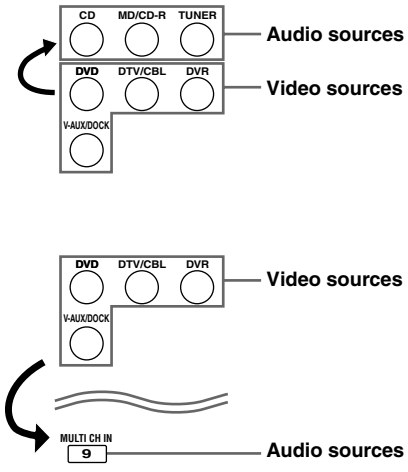
The SLEEP indicator flashes while you are switching the amount of time for the sleep timer. Once the sleep timer is set, the SLEEP indicator lights up in the front panel display, and the display returns to the selected sound field program.

- To cancel the sleep timer, press **㉕SLEEP** on the remote control repeatedly until "SLEEP OFF" appears in the front panel display.
- You can also cancel the sleep timer setting by pressing **ⒶSTANDBY/ON** (or **⑮STANDBY**) to set this unit to the standby mode.

■ Playing video sources in the background

You can combine a video image from a video source with sound from an audio source. For example, you can enjoy listening to classical music while viewing beautiful scenery from the video source on the video monitor.

Press the input selector buttons (③) on the remote control to select a video source and then an audio source.



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Sound field programs

This unit is equipped with a variety of precise digital decoders that allow you to enjoy multi-channel playback from almost any stereo or multi-channel sound source.

Press ⓀPROGRAM ◁ / ▷ (or press ④AMP and then press ⑩PROG ◁ / ▷ repeatedly).

The name of the selected sound field program appears in the front panel display.

Notes

- When you select an input source, this unit automatically selects the last sound field program used with the corresponding input source.
- Sound field programs cannot be selected when the component connected to the MULTI CH INPUT jacks is selected as the input source (see page 30).
- When PCM signals with a sampling frequency higher than 48 kHz are input, this unit is automatically set to the "STRAIGHT" mode (see page 36).
- When the sampling frequency of the input sources are higher than 96 kHz, this unit does not apply any sound field programs.

- Choose a sound field program based on your listening preference, not merely on the name of the program itself.
- You can select "Music Enh. 2ch" and "Music Enh. 5ch" by pressing ㉑**ENHANCER** repeatedly.

Sound field program descriptions

Category	Program	Features
MUSIC	Pop/Rock	CINEMA DSP processing. This program presents an image of pop, rock, or jazz live concert. The sound field reproduces the spaciousness of a massive pavilion with an emphasis on the vividness of vocals on the stage and solo instruments and the beats of rhythm instruments.
	Hall	CINEMA DSP processing. This sound field is suitable for classic and orchestral music. The program uses data collected in a large concert hall in Munich. You can enjoy delicate and beautiful reverberation and a majestic atmosphere.
	Jazz	CINEMA DSP processing. The sound field is suitable for jazz and fusion music. It uses data collected in a famous jazz club in New York. You can enjoy clear reverberation.
ENTERTAIN	Game	CINEMA DSP processing. You can enjoy dynamic and thrilling sound effects as you play games. The program lets you feel the depth and three-dimensional surrounding sounds of the field where you are playing, and offers cinema-like surrounding sound effects for the scenes of movies.
	TV Sports	CINEMA DSP processing. You can enjoy sports relays broadcast in stereo and variety shows with a live sound environment. For sports relays, the voices of commentators and announcers come clearly from the center; the cheers and atmosphere in the stadium spread around within a comfortable range, and you can feel like as if you are in the stadium.
MOVIE	Movie Spacious	CINEMA DSP processing. The sound field is suitable for movies with an emphasis on spectacular sound effects, and is a perfect fit with a wide screen. The program reproduces a wide dynamic range from minimum sound effects to powerful sounds.
	Movie Dramatic	CINEMA DSP processing. This sound field is also suitable for movies with an emphasis on three-dimensional sound effects. It restrains reverberation to an moderate extent, but reproduces sound effects and background music in a soft, three-dimensional manner with clarity and center orientation of voices as pivots.
STEREO	2ch Stereo	Downmixes multi-channel sources to 2 channel or plays back 2-channel sources as they are.
	5ch Stereo	CINEMA DSP processing. Using this program increases the listening position range. This is a sound field suitable for background music at parties.
ENHANCER	Music Enh. 2ch Music Enh. 5ch	Select these programs to play back compression artifacts (such as the MP3 format) in 2-channel or 5-channel stereo. This program enhances your listening experience by regenerating the missing harmonics in a compression artifact.

Note

The sound field programs of this unit are recreations of real-world acoustic environments made from precise measurements taken in the actual concert hall, music venue, movie theater, etc. Thus, you may notice variations in the strength of the reflections coming from the front, back, left and right.

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■ Selecting decoders for 2-channel sources (surround decode mode)

Signals input from 2-channel sources can also be played back on multi-channels.

Press ④AMP and then press ㉒SUR. DECODE repeatedly to select a decoder.

You can select from the following decoders depending on the type of source you are playing and your personal preference.

STANDARD	Functions
PRO LOGIC	Dolby Pro Logic processing for any sources
PLII Movie	Dolby Pro Logic II processing for movie sources
PLII Music	Dolby Pro Logic II processing for music sources
PLII Game	Dolby Pro Logic II processing for game sources

■ Editing sound fields parameters

You can enjoy good quality sound with the factory default parameters. Although you do not have to change the initial settings, you can change some of the parameters to better suit the input source or your listening room.

1 While listening to a source, press ④AMP and then press ⑦△ / ▽ to select the desired parameter.

2 Press ⑦◁ / ▷ to change the parameter value.

Note

You cannot change parameter values when "MEM.GUARD" in "OPTION MENU" is set to "ON" (see page 50).

Initial settings are indicated in bold under each parameter.

For Pop/Rock, Hall, Jazz, Game, TV Sports, Movie Spacious and Movie Dramatic:

DSP level DSP LEVEL
Function: Adjusts the effect level.
Choices: MIN, **MID**, MAX

For PRO LOGIC II Music:

Panorama PANORAMA
Function: Sends stereo signals to the surround speakers as well as the front speakers for a wraparound effect.
Choices: **OFF**, ON

Dimension DIMENSION
Function: Gradually adjusts the sound field either towards the front or towards the rear.
Control range: –3 (towards the rear) to +3 (towards the front), initial setting is STD (standard).

Center width CT WIDTH
Function: Adjusts the center image from all three front speakers to varying degrees. A larger value adjusts the center image towards the front left and right speakers.
Control range: 0 (center channel sound is output only from center speaker) to 7 (center channel sound is output only from front left and right speakers), initial setting is 3.

For Music Enh. 2ch and Music Enh. 5ch

Effect level EFCL LVL
Function: Adjusts the effect level.
Choices: LOW, **HIGH**

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■ Using sound field programs without surround speakers (Virtual CINEMA DSP)

Virtual CINEMA DSP allows you to enjoy the CINEMA DSP programs without surround speakers by creating virtual speakers.
If you set "SUR. LR" to "NONE" (see page 47), Virtual CINEMA DSP is automatically activated whenever you select a sound field program (see page 34).

Note

Virtual CINEMA DSP will not be activated even when "SUR. LR" is set to "NONE" (see page 45) in the following cases:
– when "5ch Stereo" (see page 34) is selected.
– when headphones are connected to the PHONES jack.

■ Enjoying multi-channel sources and sound field programs with headphones (SILENT CINEMA)

SILENT CINEMA allows you to enjoy multi-channel music or movie sound, including Dolby Digital and DTS sources, through ordinary headphones. SILENT CINEMA is automatically activated whenever you connect headphones to the PHONES jack while listening to sound field programs (except for 2ch Stereo and Music Enh. 2ch) (see page 34). When SILENT CINEMA is activated, the SILENT CINEMA indicator lights up in the front panel display.

■ Enjoying unprocessed input sources (Straight decoding mode)

When this unit is in the "STRAIGHT" mode, multi-channel sources are decoded straight into the appropriate channels without any additional effect processing. 2-channel stereo sources are output from only the front left and right speakers.

Press ⓁSTRAIGHT (or press ④AMP and then ⑪STRAIGHT) to select "STRAIGHT".

To deactivate the "STRAIGHT" mode, press **ⓁSTRAIGHT** (or **⑪STRAIGHT**) again so that "STRAIGHT" disappears from the front panel display.

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FM/AM tuning

There are 2 tuning methods: automatic and manual. Automatic tuning is effective when station signals are strong and there is no interference. If the signal from the station you want to select is weak, tune into it manually. You can also use the automatic and manual preset tuning features to store up to 40 stations.

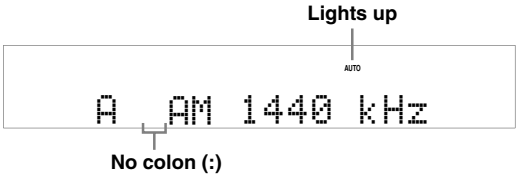
Automatic tuning

Automatic tuning is effective when station signals are strong and there is no interference.

1 Press ⓃINPUT ◁ / ▷ repeatedly so that "TUNER" is displayed in the front panel display.

2 Press ⓒBAND to select the reception band (FM or AM).

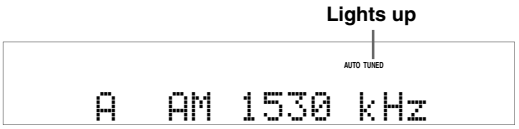
3 Press ⒼTUNING AUTO/MAN'L so that the AUTO indicator lights up in the front panel display.



If a colon (:) appears in the front panel display, automatic tuning is not possible. Press ⒷPRESET/TUNING to turn the colon (:) off.

4 Press ⒺPRESET/TUNING ◁ / ▷ once to begin automatic tuning.

When this unit is tuned into a station, the TUNED indicator lights up and the frequency of the received station is shown in the front panel display.



Manual tuning

If the signal received from the station you want to select is weak, tune into it manually.

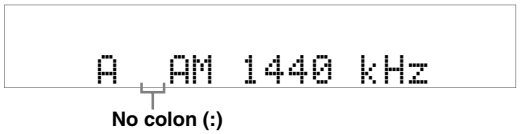
Note

Manually tuning into an FM station automatically switches the tuner to monaural reception to increase the signal quality.

1 Press ⓃINPUT ◁ / ▷ repeatedly so that "TUNER" is displayed in the front panel display.

2 Press ⓒBAND to select the reception band (FM or AM).

3 Press ⒼTUNING AUTO/MAN'L so that the AUTO indicator disappears from the front panel display.



If a colon (:) appears in the front panel display, manual tuning is not possible. Press ⒷPRESET/TUNING to turn the colon (:) off.

4 Press ⒺPRESET/TUNING ◁ / ▷ to tune into the desired station manually.

You can hold down the button to continue searching.

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Automatic preset tuning

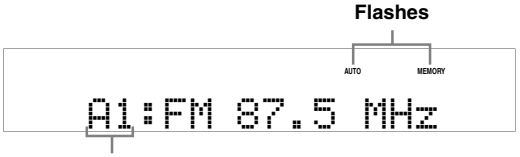
You can use the automatic preset tuning feature to store FM stations with strong signals up to 40 (A1 to E8: 8 preset station numbers in each of the 5 preset station groups) of those stations in order. You can then recall any preset station easily by selecting the preset station number.

1 Press ⓃINPUT ⊲ / ⊳ repeatedly so that "TUNER" is displayed in the front panel display.

2 Press ⓒBAND to select "FM" as the reception band.

3 Press and hold ⒻMEMORY for more than 3 seconds.

The preset station number as well as the MEMORY and AUTO indicators flashes. After approximately 5 seconds, automatic presetting starts from the current frequency and proceeds toward the higher frequencies.



When automatic preset tuning is completed, the front panel display shows the frequency of the last preset station.

You can select the preset station group and the preset station number where the first received station will be stored by pressing **ⒹA/B/C/D/E** and then **ⒺPRESET/TUNING** ⊲ / ⊳.

Notes

- Any stored station data existing under a preset station number is cleared when you store a new station under the same preset station number.
- Only FM stations with sufficient signal strength are stored automatically by automatic preset tuning. If the station you want to store is weak in signal strength, tune into it manually and store it as described in "Manual preset tuning" on this page.

Manual preset tuning

You can also store up to 40 stations (A1 to E8: 8 preset station numbers in each of the 5 preset station groups) manually.

1 Tune into a station automatically or manually.

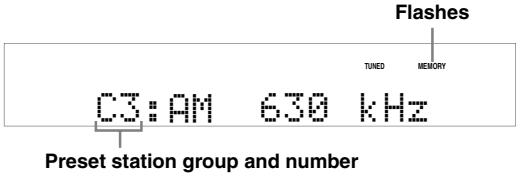
See page 37 for tuning instructions.

2 Press ⒻMEMORY.

The MEMORY indicator flashes in the front panel display for approximately 30 seconds.

3 Press ⒹA/B/C/D/E and ⒺPRESET/TUNING ⊲ / ⊳ repeatedly to select a preset station group and number (A1 to E8) while the MEMORY indicator is flashing.

Check that the colon (:) appears in the front panel display.



4 Press ⒻMEMORY while the MEMORY indicator is flashing.

The station band and frequency appear in the front panel display with the preset station group and number you have selected.

Notes

- Any stored station data existing under a preset station number is cleared when you store a new station under the same preset station number.
- The reception mode (stereo or monaural) is stored along with the station frequency.

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Selecting preset stations

You can tune into any desired station simply by selecting the preset station group and number under which it was stored.

When performing this operation with the remote control, press ③**TUNER** to select "TUNER" as the input source.

1 Press ⒹA/B/C/D/E (or ⑦A/B/C/D/E ◁ / ▷) repeatedly to select the desired preset station group (A to E).

The preset station group letter appears in the front panel display and changes each time you press the button.

2 Press ⒺPRESET/TUNING ◁ / ▷ (or ⑦PRESET/CH △ / ▽) to select the desired preset station number (1 to 8).

The preset station group and number appear in the front panel display along with the station band and frequency.

You can select the desired preset station number (1 to 8) directly by pressing the numeric buttons (㉔).

Exchanging preset stations

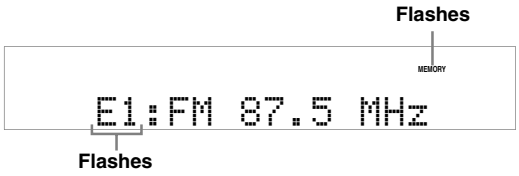
You can exchange the assignments of two preset stations with each other. The example below describes the procedure to exchange preset station "E1" with "A5".

1 Select preset station "E1" using ⒹA/B/C/D/E and ⒺPRESET/TUNING ◁ / ▷.

See "Selecting preset stations" on this page.

2 Press and hold ⒷPRESET/TUNING for more than 3 seconds.

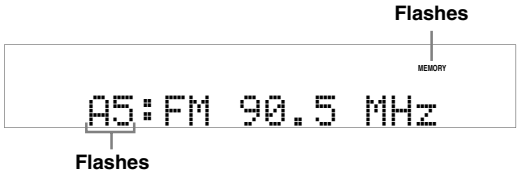
"E1" and the MEMORY indicator flash in the front panel display.



3 Select preset station "A5" using ⒹA/B/C/D/E and ⒺPRESET/TUNING ◁ / ▷.

"A5" and the MEMORY indicator flash in the front panel display.

See "Selecting preset stations" on this page.



4 Press ⒷPRESET/TUNING again.

"EXCHANGE E1–A5" appears in the front panel display and the assignments of the two preset stations are exchanged.

Black process 45.0° 240.0 LPI

Using iPod™

Once you have stationed your iPod in a Yamaha iPod universal dock (such as the YDS-10, sold separately) connected to the DOCK terminal of this unit (see page 18), you can enjoy playback of your iPod using the supplied remote control.

Supported iPod

iPod (Click and Wheel)
iPod nano
iPod mini

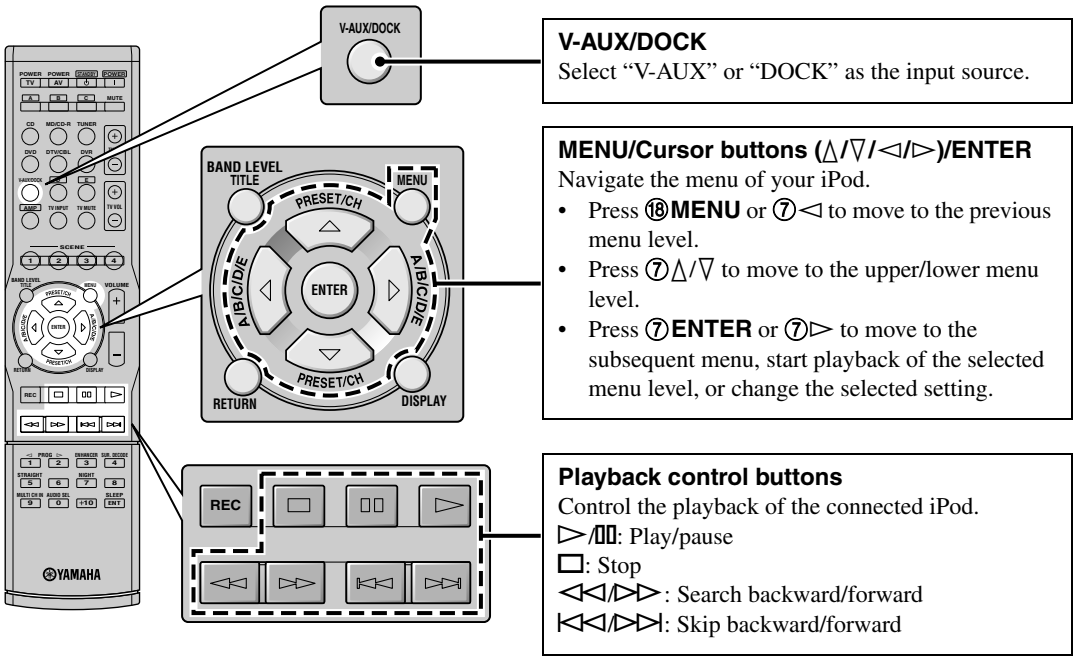
Battery charge feature

Your iPod battery is automatically charged when your iPod is stationed in a Yamaha iPod universal dock connected to the DOCK terminal of this unit as long as this unit is turned on.

Stationing your iPod to the Yamaha iPod universal dock

Once you station your iPod to the Yamaha iPod universal dock, "iPod connected" and the DOCK indicator appears in the front panel display when "V-AUX" is selected as the input source.

Controls and functions for iPod™



V-AUX/DOCK
Select "V-AUX" or "DOCK" as the input source.

MENU/Cursor buttons (△/▽/◁/▷)/ENTER
Navigate the menu of your iPod.

- Press ⑱**MENU** or ⑦◁ to move to the previous menu level.
- Press ⑦△/▽ to move to the upper/lower menu level.
- Press ⑦**ENTER** or ⑦▷ to move to the subsequent menu, start playback of the selected menu level, or change the selected setting.

Playback control buttons
Control the playback of the connected iPod.
▷/▯▯: Play/pause
□: Stop
◁◁/▷▷: Search backward/forward
|◁◁/▷▷|: Skip backward/forward

Notes

- Operations can be also done with the controls on your iPod. Refer to the instruction manuals of your iPod for the operations on your iPod.
- Some features may not be compatible depending on the model or the software version of your iPod.
- For a complete list of status messages that appear in the front panel display, see the "iPod" section in "Troubleshooting" on page 58.

Black process 45.0° 240.0 LPI

Using Bluetooth™ components

You can connect a Yamaha Bluetooth adapter (such as YBA-10, sold separately) to the DOCK terminal of this unit and enjoy the music contents stored in your Bluetooth component (such as a portable music player) without wiring between this unit and the Bluetooth component. You need to perform "pairing" the connected Bluetooth adapter and your Bluetooth component in advance.

Pairing the Bluetooth™ adapter and your Bluetooth™ component

Pairing must be performed when using a Bluetooth component with the Bluetooth adapter connected to this unit for the first time or if the pairing data has been deleted. "Pairing" refers to the operation of registering a Bluetooth component for Bluetooth communications.

- You only need the pairing operation for the first time that you use the Bluetooth component with the Bluetooth adapter.
- Pairing requires operations on this unit and on the other component with which Bluetooth communications are to be established. If necessary, refer to the other component's operating instructions.

There are two pairing methods: pairing by using "START PAIRING" in "SET MENU" and quick pairing.

■ Pairing by using "SET MENU"

Use this feature to perform pairing with the video monitor. Select "START PAIRING" in "INPUT MENU". See page 50 for details.

■ Quick pairing

To ensure security, a time limit of 8 minutes is set for the pairing operation. You are recommended to read and fully understand all the instructions before starting.

1 Press ④AMP and then press ⓃINPUT ◁ / ▷ repeatedly (or press ③V-AUX/DOCK) to select "V-AUX" as the input source.

2 Turn on the Bluetooth component you want to pair with.

3 Press and hold ⓒBAND (or ⑥BAND) for 3 seconds.

Once the Bluetooth adapter starts pairing, "Searching..." appears for a moment. While the Bluetooth adapter is in the pairing mode, DOCK indicator flashes in the front panel display.

To cancel the pairing, press ⓒBAND (or ⑥BAND) again.

Note

If the Bluetooth adapter is not connected to the DOCK terminal of this unit, "No BT adapter" appears in the front panel display.

4 Check that the Bluetooth component detects the Bluetooth adapter.

If the Bluetooth component detects the Bluetooth adapter, "YBA-10 YAMAHA" (example) appears in the Bluetooth device list.

5 Select the Bluetooth adapter in the Bluetooth device list and then enter the pass key "0000" to the Bluetooth component.

When the pairing procedure is successful, "Completed" appears in the front panel display.

Note

The Yamaha Bluetooth adapter can be paired with up to eight other components. When pairing is conducted successfully with a ninth component and the pairing data is registered, the pairing data for the least recently used other component is cleared.

Playback of the Bluetooth™ component

1 Press ④AMP and then press ⓃINPUT ◁ / ▷ repeatedly (or press ③V-AUX/DOCK) to select "V-AUX" as the input source.

2 Start playback of your Bluetooth component.

When the connected Bluetooth adapter detects the Bluetooth component, "BT connected" and the DOCK indicator appears in the front panel display.

- When you press ⑦ENTER on the remote control, the connected Bluetooth adapter searches and connect to the last connected Bluetooth component. If the Bluetooth adapter cannot find the Bluetooth component, "Not found" appears in the front panel display.
- To disconnect the Bluetooth adapter from the Bluetooth component, press ⑧RETURN.

Black process 45.0° 240.0 LPI

Recording

Recording adjustments and other operations are performed from the recording components. Refer to the operating instructions for those components.

Notes

- When this unit is set to the standby mode, you cannot record between other components connected to this unit.
- The settings of TONE CONTROL (see page 31) and VOLUME settings, speaker levels (see page 32) and the sound field programs (see page 34) do not affect recorded material.
- The source connected to the MULTI CH INPUT jacks on this unit cannot be recorded.
- Digital signals input at the DIGITAL INPUT jacks are not output at the analog AUDIO OUT (REC) jacks for recording. Therefore, if your source component is connected to provide only digital signals, you cannot record the source.
- A given input source is not output on the same AUDIO OUT (REC) channel.
- The analog audio signals input at the DOCK terminal can be output at the analog AUDIO OUT (REC) jacks for recording.
- Once you have connected a recording component to this unit, keep the component turned on while using this unit. If the component is turned off, this unit may distort the sound from other components.
- Check the copyright laws in your country to record from CDs, radio, etc. Recording of copyrighted material may infringe copyright laws.

☼
Do a test recording before you start an actual recording.

If you play back a video source that uses scrambled or encoded signals to prevent it from being dubbed, the picture itself may be disturbed due to those signals.

1 Turn on all the connected components.

2 Press ⓃINPUT ◁ / ▷ repeatedly (or press one of the input selector buttons (③)) to select the source component you want to record from.

3 Start playback on the selected source component or select a broadcast station.

4 Start recording on the recording component.

Black process 45.0° 240.0 LPI

Set menu

You can use the following parameters in set menu to adjust a variety of system settings and customize the way this unit operates. Change the initial settings (indicated in bold under each parameter) to reflect the needs of your listening environment.

■ Basic setup BASIC SETUP

Use this feature to automatically adjust speaker and system parameters (see page 22).

■ Manual setup MANUAL SETUP

Use this feature to manually adjust speaker and system parameters.

Sound menu 1 SOUND MENU

Use this menu to manually adjust any speaker settings, alter the quality and tone of the sound output by the system or compensate for video signal processing delays when using LCD monitors or projectors.

Parameter	Features	Page
A)SPEAKER SET	Selects the size of each speaker, the speakers for low-frequency signal output, the crossover frequency, and the location of the front speakers connected to the FRONT B terminals.	45
B)SP LEVEL	Adjusts the output level of each speaker.	46
C)SP DISTANCE	Adjusts the distance of each speaker.	47
D)CENTER GEQ	Adjusts the tonal quality of the center speaker.	47
E)LFE LEVEL	Adjusts the output level of the LFE channel for Dolby Digital or DTS signals.	47
F)D.RANGE	Adjusts the dynamic range of Dolby Digital or DTS signals.	47
G)AUDIO SET	Adjusts the muting level, audio delay settings, maximum volume level and initial volume level.	48

Input menu 2 INPUT MENU

Use this menu to manually reassign the input jacks, select the input mode or rename the input source.

Parameter	Features	Page
A)INPUT ASSIGN	Assigns the input jacks on this unit according to the component to be used.	48
B)INPUT RENAME	Changes the name of the input source.	49
C)VOLUME TRIM	Adjusts the output volume of each jack.	49
D)DECODER MODE	Selects the decoder mode for the sources connected to the DIGITAL INPUT jacks on the rear panel of this unit.	49
E)MULTI CH SET	Select the video source played in the background of the sources in put from the MULTI CH INPUT jacks.	49

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Option menu 3 OPTION MENU

Use this menu to manually adjust the optional system parameters.

Parameter	Features	Page
A)DISPLAY SET	Adjusts the brightness of the front panel display.	50
B)MEMORY GUARD	Locks sound field program parameters and other set menu settings.	50
C)AUDIO SELECT	Designates the default audio input jack select setting mode for the input sources connected to the DIGITAL INPUT jacks when you turn on the power of this unit.	50
D)PARAM. INI	Sets all the parameters of the sound field programs to the initial factory settings.	50
E)BLUETOOTH	Pairs the connected Yamaha Bluetooth adapter (such as YBA-10, sold separately) with a Bluetooth component (see page 41).	50

■ Signal information SIGNAL INFO

Use this feature to check audio signal information (see page 32).

Using set menu

Use the remote control to access and adjust each parameter.

You can change the set menu parameters while this unit is reproducing sound.

1 Press ④AMP and then press ⑱MENU on the remote control.

"BASIC SETUP" appears in the front panel display.

▪BASIC SETUP

2 Press ⑦△ / ▽ to select "MANUAL SETUP".

▪MANUAL SETUP

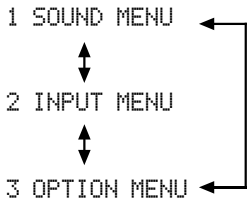
3 Press ⑦ENTER to enter "MANUAL SETUP".

"1 SOUND MENU" appears in the front panel display.

1 SOUND MENU

4 Press ⑦△ / ▽ repeatedly and then press ⑦ENTER to select and enter the desired menu.

The following menus appear in the front panel display as you press ⑦△ / ▽ repeatedly.



5 Press ⑦△ / ▽ repeatedly and then press ⑦ENTER to select and enter the desired submenu.

- Repeat this step to navigate to and enter the items you want to adjust.
- To return to the previous menu level, press ⑧RETURN.

6 Press ⑦△ / ▽ to select the desired parameter and then ⑦◁ / ▷ to change the parameter value.

- Press ⑦▷ to increase the value.
- Press ⑦◁ to decrease the value.

7 Press ⑱MENU to exit from set menu.

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1 SOUND MENU

Use this menu to manually adjust any speaker settings or compensate for video signal processing delays when using LCD monitors or projectors.

■ Speaker settings A)SPEAKER SET

Use this feature to manually adjust any speaker settings.

FRONT B speaker setting FRONT B

Use this feature to select the location of the front speakers connected to the FRONT B terminals.
Choices: **FRONT**, ZONE B

- Select "FRONT" to turn FRONT A and B on and off when the FRONT B speakers are set in the main zone.
- Select "ZONE B" if the speakers connected to the FRONT B terminals are set in another zone. If FRONT A is turned off and FRONT B is turned on, all the speakers including the subwoofer in the main zone are muted and this unit outputs sound at the FRONT B terminals only.

Notes

- If you connect headphones to the PHONES jack on this unit, the sound is output from both headphones and the FRONT B terminals when "FRONT B" is set to "ZONE B".
- If a DSP program is selected when "FRONT B" is set to "ZONE B", this unit automatically enters the Virtual CINEMA DSP mode (see page 36).

Woofer section of a speaker is 16 cm (6.5 in) or larger: large
Woofer section of a speaker is smaller than 16 cm (6.5 in): small

Front speakers FRONT

Choices: **LARGE**, SMALL

When the front speakers are large
Select "LARGE" (large).

When the front speakers are small
Select "SMALL" (small).

Note

When "BASS OUT" is set to "FRNT" (see page 46), you can select only "LARGE" in "FRONT". If the value of "FRONT" is set to a setting other than "LARGE" in advance, this unit automatically changes the value to "LARGE".

Center speaker CENTER

Choices: NONE, **SML**, LRG

When the center speaker is large
Select "LRG" (large).

When the center speaker is small
Select "SML" (small).

When you do not use the center speaker
Select "NONE" (none). The center channel signals are directed to the front left and right speakers.

Surround left/right speakers SUR. LR

Choices: NONE, **SML**, LRG

When the surround speakers are large
Select "LRG" (large).

When the surround speakers are small
Select "SML" (small).

When you do not use the surround speakers
Select "NONE" (none). This unit is set to the Virtual CINEMA DSP mode (see page 36).

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LFE/Bass out BASS OUT

Use this feature to select the speakers that output the LFE (low-frequency effect) and the low-frequency signals.
Choices: SWFR, FRNT, **BOTH**

If you are not satisfied with the bass sounds from your speakers, you can change these settings according to your preference.

When a subwoofer is connected to this unit and you want to get natural bass sound

Select “SWFR” (subwoofer). The LFE signals as well as the low-frequency signals of other speakers set to “SML” (or “SMALL”) are directed to the subwoofer.

When a subwoofer is connected to this unit and you want to get rich bass sound

Select “BOTH” (both). The low-frequency signals of any source are output from the subwoofer. The LFE signals as well as the low-frequency signals of other speakers set to “SML” (or “SMALL”) are directed to the subwoofer. The low-frequency signals of the front left and right channels are directed to the front left and right speakers and the subwoofer regardless of the “FRONT” setting (see page 45).

When you do not use a subwoofer

Select “FRNT” (front). The LFE signals, the low-frequency signals of the front left and right channels, and the low-frequency signals of other speakers set to “SML” (or “SMALL”) are all directed to the front left and right speakers regardless of the “FRONT” setting (see page 45).

Crossover CROSSOVER

Use this feature to select a crossover frequency of all the speakers set to “SML” (or “SMALL”) or to “NONE” in “SPEAKER SET” (see pages 44 and 45). All frequencies below the selected frequency will be sent to the subwoofer or to the speakers set to “LRG” (or “LARGE”) in “SPEAKER SET” (see pages 44 and 45).
Choices: 40Hz, 60Hz, **80Hz**, 90Hz, 100Hz, 110Hz, 120Hz, 160Hz, 200Hz

Subwoofer phase SWFR PHASE

Use this feature to switch the phase of your subwoofer if bass sounds are lacking or unclear.
Choices: **NRM**, REV

- Select “NRM” if you do not want to reverse the phase of your subwoofer.
- Select “REV” to reverse the phase of your subwoofer.

■ Speaker level B)SP LEVEL

Use this feature to manually adjust the output level of each speaker.
Control range: –10 to +10 dB
Control step: 1 dB
Initial setting: 0 dB

SP LEVEL	Adjusted speaker
FL	Front left speaker
FR	Front right speaker
C	Center speaker
SL	Surround left speaker
SR	Surround right speaker
SWFR	Subwoofer

Note

The available speaker channels differ depending on the setting of the speakers.

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■ Speaker distance C)SP DISTANCE

Use this feature to manually adjust the distance of each speaker and the delay applied to the respective channel. Ideally, each speaker should be the same distance from the main listening position. However, this is not possible in most home situations. Thus, a certain amount of delay must be applied to the sound from each speaker so that all sounds will arrive at the listening position at the same time.

Unit UNIT

Choices: meters (m), feet (ft)
Initial setting:
[U.S.A. and Canada models]: feet (ft)
[Other models]: meters (m)

- Select "meters" to adjust speaker distances in meters.
- Select "feet" to adjust speaker distances in feet.

Speaker distances

Control range: 0.30 to 24.00 m (1.0 to 80.0 ft)
Control step: 0.10 m (0.5 ft)
Initial setting:
FRONT L/FRONT R/SWFR: 3.00 m (10.0 ft)
CENTER: 2.60 m (8.5 ft)
SUR. L/SUR. R: 2.40 m (8.0 ft)

SP DISTANCE	Adjusted speaker
FRONT L	Front left speaker
FRONT R	Front right speaker
CENTER	Center speaker
SUR. L	Surround left speaker
SUR. R	Surround right speaker
SWFR	Subwoofer

Note

The available speaker channels differ depending on the setting of the speakers.

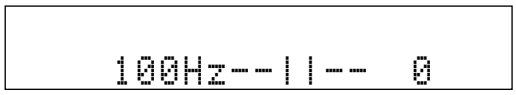
■ Center graphic equalizer D)CENTER GEQ

Use this feature to adjust the built-in 5-frequency band (100Hz, 300Hz, 1kHz, 3kHz and 10kHz) graphic equalizer for the center channel so that the tonal quality of the center speaker matches that of the front speakers. You can make adjustments while listening to the currently selected source component or a test tone.

Control range: –6.0 to +6.0 dB
Control step: 0.5 dB
Initial setting: 0 dB

☼
Press ⑦△ / ▽ to select a frequency band and ⑦◁ / ▷ to adjust the selected frequency band.

Following is an example where "100Hz" is selected as the frequency band.



Test tone TEST

Use this feature to make adjustments for "CENTER GEQ" while listening to a test tone.
Choices: **OFF**, ON

- Select "OFF" to stop test tones and output the currently selected source component.
- Select "ON" to output test tones from the center and front left speakers.

■ Low-frequency effect level E)LFE LEVEL

Use this feature to adjust the output level of the LFE (low-frequency effect) channel according to the capacity of your subwoofer or headphones. The LFE channel carries low-frequency special effects which are only added to certain scenes. This setting is effective when the input signal contains the LFE channel.

Control range: –20 to **0** dB
Control step: 1 dB

Speaker LFE SP LFE

Adjusts the speaker LFE level.

Headphone LFE HP LFE

Adjusts the headphone LFE level.

Note

Depending on the settings of "BASS OUT" (see page 46), some signals may not be output at the SUBWOOFER OUTPUT jack.

■ Dynamic range F)D.RANGE

Use this feature to select the amount of dynamic range compression to be applied to your speakers or headphones. This setting is effective only when this unit is decoding Dolby Digital and DTS signals.

Choices: MIN, STD, **MAX**

- Select "MIN" (minimum) if you regularly listen at low volume levels.
- Select "STD" (standard) for general use.
- Select "MAX" (maximum) to preserve the greatest amount of dynamic range.

Speaker dynamic range SP D.R

Adjusts the speaker compression.

Headphone dynamic range HP D.R

Adjusts the headphone compression.

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■ Audio settings G)AUDIO SET

Use this feature to adjust the overall audio settings of this unit.

Mute type MUTE TYP.

Use this feature to adjust how much the mute function reduces the output volume (see page 30).
Choices: **FULL**, –20dB

- Select "FULL" to completely mute all the audio output.
- Select "–20dB" to reduce the current volume by 20 dB.

Audio delay A.DELAY

Use this feature to delay the sound output and synchronize it with the video image. This may be necessary when using certain LCD monitors or projectors.
Control range: **0** to 160 ms
Control step: 1 ms

Maximum volume MAX VOL.

Use this feature to set the maximum volume level. This feature is useful to avoid the unexpected loud sound by mistake. For example, the original volume range is +16 dB to –80 dB. However, when "MAX VOL." is set to –5 dB, the volume range becomes –5 dB to –80 dB.
Control range: **+16 dB**, +10 dB to –30 dB
Control step: 5 dB

Note

The "MAX VOL." setting takes priority over the "Initial Volume" setting. For example, if "INI.VOL." is set to –20 dB and "MAX VOL." is set to –30 dB, the volume level is automatically set to –30 dB when you turn on the power of this unit next time.

Initial volume INI.VOL.

Use this feature to set the volume level when the power of this unit is turned on.
Choices: **Off**, –80 dB to +16 dB
Control step: 1 dB

Note

The "MAX VOL." setting takes priority over the "INI.VOL." setting.

2 INPUT MENU

Use this menu to reassign the input jacks, select the input mode or rename the input source.

■ Input assignment A)INPUT ASSIGN

Use this feature to assign the input jacks according to the component to be used if the initial settings of this unit do not correspond to your needs. Change the following parameters to reassign the respective jacks and effectively connect more components.
Once the input jacks are reassigned, you can select the corresponding component by using Ⓝ**INPUT** ◁ / ▷ (or the input selector buttons (③) on the remote control).

For DIGITAL INPUT COAXIAL jacks 1

IN (1)

Choices: (1) CD, MD/CD-R, **DVD**, DTV/CBL, V-AUX, DVR

For DIGITAL INPUT OPTICAL jacks 2 and 3

IN (2)
IN (3)

Choices: (2) CD, MD/CD-R, DVD, **DTV/CBL**, V-AUX, DVR
(3) **CD**, MD/CD-R, DVD, DTV/CBL, V-AUX, DVR

Notes

- You cannot select a specific item more than once.
- You cannot assign the same input source to both "IN (2)" and "IN (3)". For example, you assign "CD" to "IN (2)", "–––" appears in "IN (3)".

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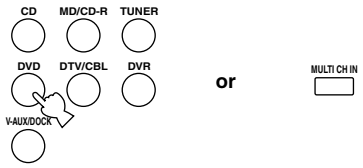
■ Input rename B)INPUT RENAME

Use this feature to change the name of the input source that appears in the front panel display.

The following is an example where "DVD" is renamed "My DVD".

1 Press one of the input selector buttons (③) or ⑫MULTI CH IN to select the input source you want to change the name of.



2 Press ④AMP and then press ⑦◁ / ▷ on the remote control to place the "_" (underscore) under the space or the character you want to edit.

3 Press ⑦△ / ▽ to select the character you want to use and then press ⑦◁ / ▷ to move to the next space.

Notes

- You can use up to 8 characters for each input.
- Press ⑦▽ to change the character in the following order, or press ⑦△ to go in the reverse order:
  A to Z, a space, 0 to 9, a space, a to z, a space, symbols (#, *, –, +, etc.)

4 Repeat steps 1 through 3 to rename each input source.

5 Press ⑱MENU to exit from "INPUT RENAME".

■ Volume trim C)VOLUME TRIM

Use this feature to adjust the level of the signal input at each jack. This is useful if you want to balance the level of each input source to avoid sudden changes in volume when switching between input sources.

Press one of the input selector buttons (③) or ⑫MULTI CH IN to select the input source you want to adjust the level.

Choices: CD, TUNER, MD/CD-R, DVD, DTV/CBL, V-AUX (DOCK), DVR, MULTI CH IN
Control range: –6.0 to +6.0 dB
Control step: 1.0 dB
Initial setting: 0.0 dB

■ Decoder mode D)DECODER MODE

Decoder select mode

Use this feature to designate the default decoder mode for the input sources connected to the DIGITAL INPUT jacks when you turn on the power of this unit.
Choices: **AUTO**, LAST

- Select "AUTO" if you want this unit to automatically detect the type of input signals and select the appropriate decoder mode.
- Select "LAST" if you want this unit to automatically select the last decoder mode used the connected input source.

DTS decoder prioritize setting

Choices: **AUTO**, DTS

- Select "AUTO" if you want this unit to automatically detect input signal types and select the appropriate input mode.
- Select "DTS" when you play back a DTS-CD.

■ Multi channel input setup E)MULTI CH SET

BGV BGV

Use this feature to select the video source played in the background of the sources input from the MULTI CH INPUT jacks.
Choices: **LAST,** DVR, V-AUX, DTV/CBL, DVD

Select "LAST" to set this unit to automatically select the last selected video source as the background video source.

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3 OPTION MENU

Use this menu to adjust the optional system parameters.

■ Display settings A)DISPLAY SET

Dimmer DIMMER

Use this feature to adjust the brightness of the front panel display.
Control range: –4 to **0**
Control step: 1

- Press ⑦◁ to make the front panel display dimmer.
- Press ⑦▷ to make the front panel display brighter.

■ Memory guard B)MEMORY GUARD

Memory guard MEM.GUARD

Use this feature to prevent accidental changes to DSP program parameter values and other system settings.
Choices: **OFF**, ON

- Select "OFF" to turn off the "MEM.GUARD" feature.
- Select "ON" to protect:
  - sound field program parameters
  - all set menu items
  - all speaker levels
  - SCENE template parameters

Note

When "MEM.GUARD" is set to "ON", you cannot select and adjust any other set menu items.

■ Audio select C)AUDIO SELECT

Use this feature to designate the default audio input jack select setting for the input sources when you turn on the power of this unit.
Choices: **AUTO**, LAST

- Select "AUTO" if you want this unit to automatically detect the type of input signals and select the appropriate input mode.
- Select "LAST" if you want this unit to automatically select the last input mode used for the connected input source (see page 31).

■ Parameter initialization D)PARAM. INI

Use this feature to set all the parameters of the sound field programs to the initial factory settings.
Choices: **NO**, YES

- Select "NO" to cancel the parameter initialization and return to the previous menu level.
- Select "YES" to set all the sound field parameters to the initial factory settings.

Notes

- You cannot automatically revert to the previous parameter settings once you initialize the sound field program parameters.
- You cannot separately initialize individual sound field programs.

■ Bluetooth setting E)BLUETOOTH

Start pairing START PAIRING

Use this feature to start pairing the connected Yamaha Bluetooth adapter (such as YBA-10, sold separately) with your Bluetooth component. For details about the pairing, refer to "Pairing the Bluetooth™ adapter and your Bluetooth™ component" on page 41.

To ensure security, a time limit of 8 minutes is set for the pairing operation. You are recommended to read and fully understand all the instructions before starting.

1 Select "START PAIRING" in "BLUETOOTH" and then press ⑦ENTER to start pairing.

The connected Bluetooth adapter starts searching Bluetooth components. "Searching..." appears in the front panel display.

2 Check that the Bluetooth component detects the Bluetooth adapter.

If the Bluetooth component the Bluetooth adapter, "YBA-10 YAMAHA" (example) appears in the Bluetooth device list.

3 Select the Bluetooth adapter in the Bluetooth device list and then enter the pass key "0000" on the Bluetooth component.

Once this unit completes the pairing successfully, "Completed" appears.

To cancel the pairing, press ⑧RETURN to exit from "START PAIRING".

4 Press ⑧RETURN to exit from "START PAIRING".

Notes

- If the connected Bluetooth adapter cannot find any Bluetooth components, "Not found" appears.
- If a Bluetooth adapter is not connected to this unit, "No BT adapter" appears.

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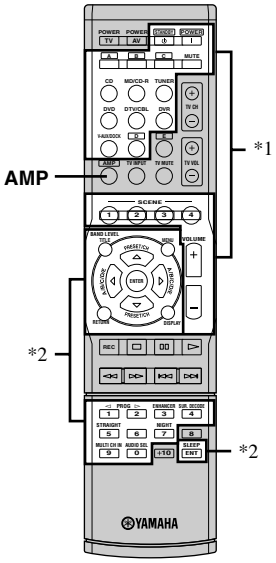
Remote control features

In addition to controlling this unit, the remote control can also operate other audiovisual components made by Yamaha and other manufacturers. To control your TV or other components, you must set up the appropriate remote control code for each input source (see page 53).

Controlling this unit, a TV, or other components

■ Controlling this unit

Press ④**AMP** to control this unit.



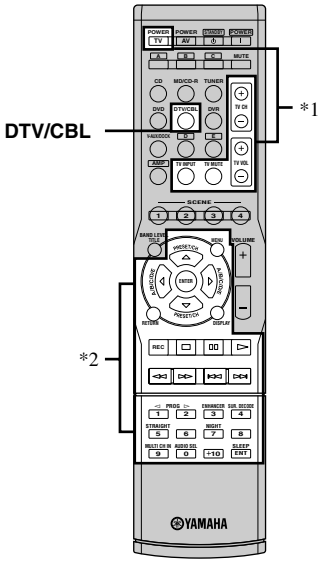
Notes

*1 These buttons always control this unit.

*2 These buttons control this unit only when ④**AMP** is pressed.

■ Controlling a TV

Press ③**DTV/CBL** to control your TV. To control your TV, set the appropriate remote control code for ③**DTV/CBL** (see page 53).



Notes

*1 These buttons always control your TV regardless of whether you press ③**DTV/CBL** or not.

Remote control	Digital TV/Cable TV
TV POWER	Turns on or off the power.
TV CH +/–	Changes the channel number.
TV VOL +/–	Increases or decreases the volume level.
TV INPUT	Changes the input source.
TV MUTE	Mutes the audio output.

*2 These buttons control your TV only when ③**DTV/CBL** is pressed. For details, see the "Digital TV/Cable TV" column on page 52.

You can control more than one TV by setting the appropriate remote control code for any input source selector buttons other than ③**DTV/CBL**. In such a case, you can control the buttons highlighted above (*1 and *2) when you press the input source selector button.

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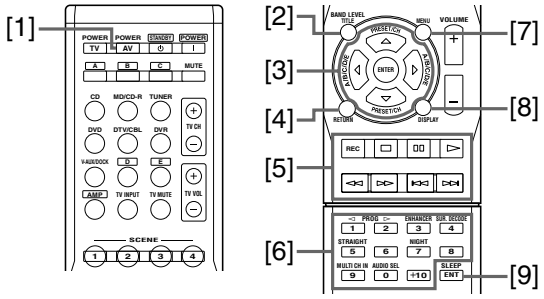
■ Controlling other components

Press one of the input selector buttons (③) or A to E buttons to control other components. You must set the appropriate remote control code for each input source in advance (see page 53). The following table shows the function of each control button used to control other components assigned to each input selector button. Be advised that some buttons may not correctly operate the selected component.



- The remote control has 13 modes (input areas) to control components so that the remote control can operate up to 13 different components.
- When you press one of the optional component control area buttons (A to E), you can control the desired component without changing the input source of this unit.

Remote control	DVD player/recorder	VCR	Digital TV/ Cable TV	LD player	CD player	MD/CD recorder	Tuner
[1] AV POWER	Power *1	Power *1	Power *2	Power *1	Power *1	Power *1	
[2] TITLE	Title						Band
[3] PRESET/CH △	Up	VCR channel up	Up				Preset up (1-8)
PRESET/CH ▽	Down	VCR channel down	Down				Preset down (1-8)
A/B/C/D/E ◁	Left		Left				Preset down (A-E)
A/B/C/D/E ▷	Right		Right				Preset up (A-E)
ENTER	Enter		Enter				
[4] RETURN	Return		Return				
[5] REC	Disc skip (player) Rec (recorder)	Rec	Rec *2		Disc skip	Rec	
▷	Play	Play	Play *2	Play	Play	Play	
◁◁	Search backward	Search backward	Search backward *2	Search backward	Search backward	Search backward	
▷▷	Search forward	Search forward	Search forward *2	Search forward	Search forward	Search forward	
▯▯	Pause	Pause	Pause *2	Pause	Pause	Pause	
⏮	Skip backward	Skip backward	Skip backward *2	Skip backward	Skip backward	Skip backward	
⏭	Skip forward	Skip forward	Skip forward *2	Skip forward	Skip forward	Skip forward	
□	Stop	Stop	Stop *2	Stop	Stop	Stop	
[6] 1-9, 0, +10	Numeric buttons	Numeric buttons	Numeric buttons	Numeric buttons	Numeric buttons	Numeric buttons	Preset stations (1-8)
[7] MENU	Menu		Menu				
[8] DISPLAY	Display	Display	Display	Display	Display	Display	
[9] ENT	Title/Index	Enter	Enter	Chapter/Time	Index	Index	

Notes

*1 This button is operational only when the original remote control supplied with the component has a POWER button.

*2 These buttons operate your DVD recorder only when you set the appropriate remote control code for DVR (see page 53).

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Setting remote control codes

You can control other components by setting the appropriate remote control codes. For a complete list of available remote control codes, refer to "List of remote control codes" at the end of this manual.

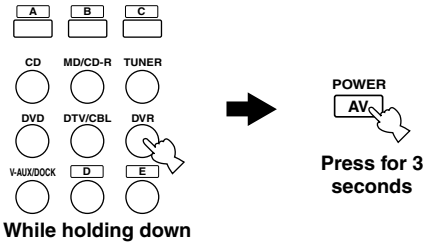
Remote control code default settings

Input source	Component category	Manufacturer	Default code
CD	CD	Yamaha	5013
MD/CD-R	CD-R	Yamaha	5001
TUNER	TUNER	Yamaha	5007
DVD	DVD	Yamaha	2000
DTV/CBL	—	—	—
V-AUX/DOCK	TUNER	Yamaha	5011
DVR	DVR	Yamaha	2011
A	TUNER	Yamaha	5012
B	TUNER	Yamaha	5009
C	TUNER	Yamaha	5017
D	—	—	—
E	—	—	—

Note

You may not be able to operate your Yamaha component even if a Yamaha remote control code is preset as listed above. In this case, try setting another Yamaha remote control code.

1 While pressing and holding one of the input selector buttons (③) on the remote control to select the input area you want to set up, press ②AV POWER for more than 3 seconds.



2 Press the numeric buttons (0 to 9) (㉔) to enter the four-digit remote control code for the component to be used.

When the setting succeeds, "RemoteSetup OK" appears; however, when it dues not, "RemoteSetup NG" appears in the front panel display.

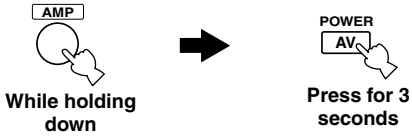
Notes

- If the manufacturer of your component has more than one code, try each of them until you find the correct one.
- If you do not press any buttons within 30 seconds in step 2, the setup process is canceled. If this happens, repeat the setup procedure.

■ Resetting all remote control codes

Use this feature to clear all the remote control codes previously set and reset all of them to the initial factory settings.

1 While pressing and holding ④AMP, press ②AV POWER for more than 3 seconds.



2 Press the numeric buttons (㉔) to enter the code number "9981".

"RemoteSetup OK" appears in the front panel display, and the remote control codes previously set are cleared and reset to the initial factory settings.

If you do not press any buttons within 30 seconds after step 1, the clearing process is canceled. In this case, repeat the clearing procedure.

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Advanced setup

This unit has additional menus that are displayed in the front panel display. The advanced setup menu offers additional operations to adjust and customize the way this unit operates. Change the initial settings (indicated in bold under each parameter) to reflect the needs of your listening environment.

Notes

- Only Ⓐ**STANDBY/ON**, Ⓚ**PROGRAM** ⊲ / ⊳ and Ⓛ**STRAIGHT** are effective while you are using the advanced setup menu.
- No other operations can be made while you are using the advanced setup menu.
- The advanced setup menu is only available in the front panel display.

1 Press Ⓐ STANDBY/ON on the front panel to set this unit to the standby mode.

2 Press and hold Ⓙ TONE CONTROL and then press Ⓐ STANDBY/ON to turn on this unit.

This unit turns on, and the advanced setup menu appears in the front panel display.

3 Press Ⓚ PROGRAM ⊲ / ⊳ to select the parameter you want to adjust.

The name of the selected parameter appears in the front panel display.

4 Press Ⓛ STRAIGHT repeatedly to change the selected parameter setting.

5 Press Ⓐ STANDBY/ON to confirm your selection and set this unit to the standby mode.

The settings you made are reflected next time you turn on this unit.

■ Speaker impedance SP IMP. (U.S.A. and Canada models only)

Use this feature to set the speaker impedance of this unit so that it matches that of your speakers.
Choices: **8ΩMIN**, 6ΩMIN

- Select "8ΩMIN" to set the speaker impedance to 8 Ω.
- Select "6ΩMIN" to set the speaker impedance to 6 Ω.

SP IMP.	Speaker	Impedance level
8ΩMIN	Front (A or B)	The impedance of each speaker must be 8 Ω or higher.
	Center	
	Surround	
6ΩMIN	Front (A or B)	The impedance of each speaker must be 6 Ω or higher.
	Center	
	Surround	

■ Tuner frequency step TU (Asia and General models only)

Use this feature to set the tuner frequency step according to the frequency spacing in your area.
Choices: **AM10/FM100**, AM9/FM50

- Select "AM10/FM100" for North, Central and South America.
- Select "AM9/FM50" for all other areas.

■ Initializing PRESET

Use this feature to reset all the parameters of this unit to the initial factory settings.
Choices: **CANCEL**, RESET

- Select "CANCEL" not to reset any parameters of this unit.
- Select "RESET" to reset the parameters of this unit.

Notes

- This setting completely resets all the parameters of this unit including the set menu parameters. However, the advanced setup menu parameters will not be initialized.
- The initial factory settings are activated next time you turn on this unit.

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Troubleshooting

Refer to the table below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off this unit, disconnect the power cable, and contact the nearest authorized Yamaha dealer or service center.

■ General

Problem	Cause	Remedy	See page
This unit fails to turn on or enters the standby mode soon after the power is turned on.	The power cable is not connected or the plug is not completely inserted.	Connect the power cable firmly.	—
	The speaker impedance setting is incorrect.	Set the speaker impedance to match your speakers.	12
	The protection circuitry has been activated.	Make sure that all speaker wire connections on this unit and on all speakers are secure and that the wire for each connection does not touch anything other than its respective connection.	11
	This unit has been exposed to a strong external electric shock (such as lightning or strong static electricity).	Set this unit to the standby mode, disconnect the power cable, plug it back in after 30 seconds and then use it normally.	—
No sound	Incorrect input or output cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.	13-17
	No appropriate Audio input jack select has been set.	Set an appropriate Audio input jack select.	31
	No appropriate input source has been selected.	Select an appropriate input source with ⓃINPUT ◁ / ▷ on the front panel (or the input selector buttons (③) on the remote control).	29, 30
	Speaker connections are not secure.	Secure the connections.	11
	The front speakers to be used have not been selected properly.	Select the front speakers with ⓘSPEAKERS.	29
	The volume is turned down.	Turn up the volume.	—
	The sound is muted.	Press ⑯MUTE or ⑲VOLUME +/– on the remote control to resume audio output and then adjust the volume.	30
	Signals this unit cannot reproduce are being input from a source component, such as a CD-ROM.	Play a source whose signals can be reproduced by this unit.	—
	Audio signals input at the HDMI jack are not output from any speaker terminals.	Make an analog or digital connection beside the HDMI connection.	—
	The setting of the connected component is improper.	Make an appropriate setting following the instruction manual of the connected component.	—
The sound suddenly goes off.	The protection circuitry has been activated because of a short circuit, etc.	Check that the impedance setting is correct.	12
		Check that the speaker wires are not touching each other and then turn this unit back on.	—
	The sleep timer has turned off this unit.	Turn on this unit, and play the source again.	—
	The sound is muted.	Press ⑯MUTE or ⑲VOLUME +/– on the remote control to resume audio output.	30
Sound is heard from the speaker on one side only.	Incorrect cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.	13-17
	Incorrect settings in “SP LEVEL”.	Adjust the “SP LEVEL” settings.	32

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Problem	Cause	Remedy	See page
Only the center speaker outputs substantial sound.	When playing a monaural source with a CINEMA DSP program, the source signal is directed to the center channel, and the front and surround speakers output effect sounds.		
No sound is heard from the center speaker.	"CENTER" in "SPEAKER SET" is set to "NONE".	Set "CENTER" to "SML" or "LRG".	45
	Some sound field programs do not output sounds from the center speaker.	Try another sound field program.	34
No sound is heard from the surround speakers.	"SUR. LR" in "SPEAKER SET" is set to "NONE".	Set "SUR. LR" to "SML" or "LRG".	45
	This unit is in the "STRAIGHT" mode and a monaural source is being played back.	Press **L STRAIGHT** on the front panel so that "STRAIGHT" disappears from the front panel display.	36
No sound is heard from the subwoofer.	"BASS OUT" in "SPEAKER SET" is set to "FRNT" when a Dolby Digital or DTS signal is being played.	Set "BASS OUT" to "SWFR" or "BOTH".	46
	"BASS OUT" in "SPEAKER SET" is set to "SWFR" or "FRNT" when a 2-channel source is being played.	Set "BASS OUT" to "BOTH".	46
	The source does not contain low-frequency bass signals.		
Dolby Digital or DTS sources cannot be played. (Dolby Digital or DTS indicator in the front panel display does not light up.)	The connected component is not set to output Dolby Digital or DTS digital signals.	Make an appropriate setting following the operating instructions for your component.	—
	Audio input jack select is set to "ANALOG".	Set Audio input jack select to "AUTO".	31
A humming sound is heard.	Incorrect cable connections.	Connect the audio cables firmly. If the problem persists, the cables may be defective.	—
The volume level cannot be increased, or the sound is distorted.	You are attempting to set the volume level higher than the maximum volume level.	Adjust "MAX VOL." setting.	48
	The component connected to the AUDIO OUT (REC) jacks on this unit is turned off.	Turn on the power of the component.	—
The sound effect cannot be recorded.	It is not possible to record the sound effect with a recording component.		
A source cannot be recorded by an analog component connected to the AUDIO OUT (REC) jacks.	The source component is not connected to the analog AUDIO IN jacks on this unit.	Connect the source component to the analog AUDIO IN jacks.	15, 17
The sound field parameters and some other settings of this unit cannot be changed.	"MEM.GUARD" in "OPTION MENU" is set to "ON".	Set "MEM.GUARD" to "OFF".	50
This unit does not operate properly.	The internal microcomputer has been frozen by an external electric shock (such as lightning or excessive static electricity) or by a power supply with low voltage.	Disconnect the power cable from the AC wall outlet and then plug it in again after about 30 seconds.	—
"CHECK SP WIRES" appears in the front panel display.	Speaker cables are short-circuited.	Make sure all speaker cables are connected correctly.	11

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Problem	Cause	Remedy	See page
There is noise interference from digital or radio frequency equipment.	This unit is too close to the digital or high-frequency equipment.	Move this unit further away from such equipment.	—
The picture is disturbed.	The video source uses scrambled or encoded signals to prevent dubbing.		
This unit suddenly enters the standby mode.	The internal temperature is too high and the overheat protection circuitry has been activated.	Wait about 1 hour for this unit to cool down and then turn it back on.	—

■ Tuner

	Problem	Cause	Remedy	See page
FM	**FM stereo reception is noisy.**	The characteristics of FM stereo broadcasts may cause this problem when the transmitter is too far away or the antenna input is poor.	Check the antenna connections.	19
			Try using a high-quality directional FM antenna.	—
			Use the manual tuning method.	37
	There is distortion, and clear reception cannot be obtained even with a good FM antenna.	There is multi-path interference.	Adjust the antenna position to eliminate multi-path interference.	—
	The desired station cannot be tuned into with the automatic tuning method.	The signal is too weak.	Use a high-quality directional FM antenna.	—
			Use the manual tuning method.	37
	Previously preset stations can no longer be tuned into.	This unit has been disconnected for a long period.	Set preset stations.	38
AM	**The desired station cannot be tuned into with the automatic tuning method.**	The signal is weak or the antenna connections are loose.	Tighten the AM loop antenna connections and orient it for the best reception.	—
			Use the manual tuning method.	37
	There are continuous crackling and hissing noises.	Noises result from lightning, fluorescent lamps, motors, thermostats and other electrical equipment.	Use an outdoor antenna and a ground wire. This will help somewhat, but it is difficult to eliminate all noise.	—
	There are buzzing and whining noises.	A TV set is being used nearby.	Move this unit away from the TV set.	—

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■ iPod

Note

In case of a transmission error without a status message appearing in the front panel display, check the connection to your iPod (see page 18).

Status message	Cause	Remedy	See page
Connect error	There is a problem with the signal path from your iPod to this unit.	Turn off this unit and reconnect the Yamaha iPod universal dock to the DOCK terminal of this unit.	18
		Try resetting your iPod.	—
Unknown iPod	The iPod being used is not supported by this unit.	Only iPod (Click and Wheel), iPod nano, and iPod mini are supported.	—
iPod connected	Your iPod is properly stationed in a Yamaha iPod universal dock (such as YDS-10, sold separately) connected to the DOCK terminal of this unit, and the connection between your iPod and this unit is complete.		
Disconnected	Your iPod was removed from a Yamaha iPod universal dock (such as YDS-10, sold separately) connected to the DOCK terminal of this unit.	Station your iPod back in a Yamaha iPod universal dock (such as YDS-10, sold separately) connected to the DOCK terminal of this unit.	18

■ Bluetooth

Status message	Cause	Remedy	See page
Searching...	The Bluetooth adapter and the Bluetooth component is in the middle of the pairing.		
	The Bluetooth adapter and the Bluetooth component is in the middle of establishing the connection.		
Completed	The paring is completed.		
Canceled	The paring is canceled.		
BT connected	The connection between the Yamaha Bluetooth adapter (such as YBA-10, sold separately) and the Bluetooth component is established.		
Disconnected	The Bluetooth component is disconnected from the Bluetooth adapter (such as YBA-10, sold separately).		
No BT adapter	The Bluetooth adapter is not connected to the DOCK terminal.	Connect the Yamaha Bluetooth adapter (such as YBA-10, sold separately) to the DOCK terminal.	18

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■ Remote control

Problem	Cause	Remedy	See page
The remote control does not work nor function properly.	Wrong distance or angle.	The remote control functions within a maximum range of 6 m (20 ft) and no more than 30 degrees off-axis from the front panel.	21
	Direct sunlight or lighting (from an inverter type of fluorescent lamp, etc.) is striking the remote control sensor of this unit.	Reposition this unit.	—
	The batteries are weak.	Replace all batteries.	3
	The remote control code is not correctly set.	Set the remote control code correctly using "List of remote control codes" at the end of this manual.	53
		Try setting another code for the same manufacturer using "List of remote control codes" at the end of this manual.	53
	Even if the remote control code is correctly set, there are some models that do not respond to the remote control.		

■ Resetting the system

Use this feature to reset all the parameters of this unit to the initial factory settings.

1 Press ⒶSTANDBY/ON on the front panel to set this unit to the standby mode.

2 Press and hold ⒿTONE CONTROL and then press ⒶSTANDBY/ON to turn on this unit.

The advanced setup menu appears in the front panel display.

3 Press ⓀPROGRAM ◁ / ▷ to select "PRESET".

4 Press ⓁSTRAIGHT repeatedly to select "RESET".

Select "CANCEL" to cancel the initialization procedure without making any changes.

5 Press ⒶSTANDBY/ON to confirm your selection and set this unit to the standby mode.

Notes

- This procedure completely resets all the parameters of this unit including the set menu parameters.
- The initial factory settings are activated next time you turn on this unit.

To cancel the initialization procedure at any time without making any changes, press **ⓁSTRAIGHT** repeatedly to select "CANCEL" and then press **ⒶSTANDBY/ON**.

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Glossary

■ Audio information

Dolby Digital

Dolby Digital is a digital surround sound system that gives you completely independent multi-channel audio. With 3 front channels (front L/R and center), and 2 surround stereo channels, Dolby Digital provides 5 full-range audio channels. With an additional channel especially for bass effects, called LFE (Low Frequency Effect), the system has a total of 5.1-channels (LFE is counted as 0.1 channel). By using 2-channel stereo for the surround speakers, more accurate moving sound effects and surround sound environment are possible than with Dolby Surround. The wide dynamic range from maximum to minimum volume reproduced by the 5 full-range channels and the precise sound orientation generated using digital sound processing provide listeners with unprecedented excitement and realism. With this unit, any sound environment from monaural up to a 5.1-channel configuration can be freely selected for your enjoyment.

Dolby Pro Logic II

Dolby Pro Logic II is an improved technique used to decode vast numbers of existing Dolby Surround sources. This new technology enables a discrete 5-channel playback with 2 front left and right channels, 1 center channel, and 2 surround left and right channels instead of only 1 surround channel for conventional Pro Logic technology. There are three modes available: “Music mode” for music sources, “Movie mode” for movie sources and “Game mode” for game sources.

Dolby Surround

Dolby Surround uses a 4-channel analog recording system to reproduce realistic and dynamic sound effects: 2 front left and right channels (stereo), a center channel for dialog (monaural), and a surround channel for special sound effects (monaural). The surround channel reproduces sound within a narrow frequency range. Dolby Surround is widely used with nearly all video tapes and laser discs, and in many TV and cable broadcasts as well. The Dolby Pro Logic decoder built into this unit employs a digital signal processing system that automatically stabilizes the volume on each channel to enhance moving sound effects and directionality.

DTS Digital Surround

DTS digital surround was developed to replace the analog soundtracks of movies with a 5.1-channel digital sound track, and is now rapidly gaining popularity in movie theaters around the world. DTS, Inc. has developed a home theater system so that you can enjoy the depth of sound and natural spatial representation of DTS digital surround in your home. This system produces practically distortion-free 5.1-channel sound (technically, left, right and center channels, 2 surround channels, plus an LFE 0.1 channel as a subwoofer, for a total of 5.1-channels).

LFE 0.1 channel

This channel reproduces low-frequency bass signals. The frequency range of this channel is from 20 Hz to 120 Hz. This channel is counted as 0.1 because it only enforces a low-frequency range compared to the full-range reproduced by the other 5 channels in Dolby Digital or DTS 5.1-channel systems.

PCM (Linear PCM)

Linear PCM is a signal format under which an analog audio signal is digitized, recorded and transmitted without using any compression. This is used as a method of recording CDs and DVD audio. The PCM system uses a technique for sampling the size of the analog signal per very small unit of time. Standing for “Pulse Code Modulation”, the analog signal is encoded as pulses and then modulated for recording.

Sampling frequency and number of quantized bits

When digitizing an analog audio signal, the number of times the signal is sampled per second is called the sampling frequency, while the degree of fineness when converting the sound level into a numeric value is called the number of quantized bits. The range of rates that can be played back is determined based on the sampling rate, while the dynamic range representing the sound level difference is determined by the number of quantized bits. In principle, the higher the sampling frequency, the wider the range of frequencies that can be played back, and the higher the number of quantized bits, the more finely the sound level can be reproduced.

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■ Sound field program information

CINEMA DSP

Since the Dolby Surround and DTS systems were originally designed for use in movie theaters, their effect is best felt in a theater having many speakers designed for acoustic effects. Since home conditions, such as room size, wall material, number of speakers, and so on, can differ so widely, it is inevitable that there are differences in the sound heard. Based on a wealth of actually measured data, Yamaha CINEMA DSP uses Yamaha original DSP technology to combine Dolby Pro Logic, Dolby Digital and DTS systems to provide the audiovisual experience of movie theater in the listening room of your own home.

SILENT CINEMA

Yamaha has developed a natural, realistic sound effect DSP algorithm for headphones. Parameters for headphones have been set for each sound field program so that accurate representations of all the sound field programs can be enjoyed on headphones.

Virtual CINEMA DSP

Yamaha has developed a Virtual CINEMA DSP algorithm that allows you to enjoy DSP surround effects even without any surround speakers by using virtual surround speakers. It is even possible to enjoy Virtual CINEMA DSP using a minimal two-speaker system that does not include a center speaker.

■ Video information

Component video signal

With the component video signal system, the video signal is separated into the Y signal for the luminance and the P_B and P_R signals for the chrominance. Color can be reproduced more faithfully with this system because each of these signals is independent. The component signal is also called the “color difference signal” because the luminance signal is subtracted from the color signal. A monitor with component input jacks is required in order to output component signals.

Composite video signal

With the composite video signal system, the video signal is composed of three basic elements of a video picture: color, brightness and synchronization data. A composite video jack on a video component transmits these three elements combined.

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Specifications

AUDIO SECTION

- Minimum RMS Output Power for Front, Center, Surround
  [U.S.A. and Canada models]
  1 kHz, 0.9% THD, 8 Ω ..... 100 W/ch
  [Other models]
  1 kHz, 0.9% THD, 6 Ω ..... 100 W/ch
- Maximum Power (JEITA)
  [U.S.A. and Canada models]
  1 kHz, 10% THD, 8 Ω ..... 135 W/ch
  [Asia, China, Korea and General models]
  1 kHz, 10% THD, 6 Ω .....135 W/ch
- MAX Power Per Channel
  [U.K., Russia, and Europe models]
  1 kHz, 0.7% THD, 4 Ω ..... 105 W or more
- IEC Power
  [U.K., Russia, and Europe models]
  1 kHz, 0.1% THD, 6 Ω ..... 90 W or more
- Dynamic Power
  [U.S.A. and Canada models] (Impedance Selector: 8 Ω)
  (IHF, 8/6/4/2 Ω) ..... 110/130/160/180 W
  [Other models]
  (IHF, 6/4/2 Ω) ..... 105/130/150 W
- Dynamic Headroom [U.S.A. and Canada models]
  8 Ω ..... 0.41 dB
- Frequency Response
  CD, etc. to Front ..... 10 Hz to 100 kHz, 0/–3 dB
  V-AUX to Front ..... 10 Hz to 20 kHz, 0/–3 dB
- Total Harmonic Distortion
  CD, etc. (2ch stereo) to Front SP OUT,
  [U.S.A. and Canada models]
  1 kHz, 50 W/8 Ω ..... 0.06% or less
  [Other models]
  1 kHz, 50 W/6 Ω ..... 0.06% or less
- Signal to Noise Ratio (IHF-A Network)
  CD, etc. (STEREO) Input shorted
  250 mV.....100 dB or more
  200 mV.....98 dB or more
- Residual Noise (IHF-A Network)
  Front L/R ..... 170 µV or less
- Channel Separation
  CD, etc. Input 5.1 kΩ shorted (1 kHz/10 kHz)
  ..... 60 dB/45 dB or more
- Tone Control
  BASS Boost/Cut ..... ±10 dB/100 Hz
  TREBLE Boost/Cut ..... ±10 dB/20 kHz
- Headphone Jack Rated Output/Impedance
  CD, etc. (1 kHz, 200 mV, 8 Ω).....0.4 V/470 Ω
- Input Sensitivity/Input Impedance
  CD, etc. ..... 200 mV/47 kΩ
  MULTI CH INPUT ..... 200 mV/47 kΩ
- Maximum Input Signal
  CD, etc. 1 kHz, 0.5%THD (EFFECT ON) ..... 2.0 V or more
- Output Level/Output Impedance
  AUDIO OUT (REC) ..... 200 mV/1.2 kΩ
  SUBWOOFER OUTPUT
  (2ch Stereo and FRONT SP: SMALL) ..... 4 V/1.2 kΩ
- Filter Characteristics (fc=40/60/80/90/100/110/120/160/200 Hz)
  H.P.F. (Front, Center, Surround) ..... 12 dB/oct.
  L.P.F. (Subwoofer) ..... 24 dB/oct.

VIDEO SECTION

- Signal Level
  Composite ..... 1 Vp-p/75 Ω
  Component ..... 1 Vp-p/75 Ω (Y), 0.7 Vp-p/75 Ω (P_B/P_R)
- Video Maximum Input Level.....1.5 Vp-p or more
- Signal to Noise Ratio ..... 50 dB or more
- Frequency Response (MONITOR OUT)
  Component Signal ..... 5 Hz to 60 MHz, –3 dB

FM SECTION

- Tuning Range
  [U.S.A. and Canada models] ..... 87.5 to 107.9 MHz
  [Asia and General models] ..... 87.5/87.50 to 108.0/108.00 MHz
  [Other models] ..... 87.50 to 108.00 MHz
- 50 dB Quieting Sensitivity (IHF, 100% mod.)
  Mono ..... 2.8 µV (20.2 dBf)
- Signal to Noise Ratio (IHF)
  Mono/Stereo ..... 73 dB/70 dB
- Harmonic Distortion (1 kHz)
  Mono/Stereo 0.5%/0.5%

AM SECTION

- Tuning Range
  [U.S.A. and Canada models] ..... 530 to 1710 kHz
  [Asia and General models] ..... 530/531 to 1710/1611 kHz
  [Other models] ..... 531 to 1611 kHz

GENERAL

- Power Supply
  [U.S.A. and Canada models] ..... 120 V AC, 60 Hz
  [Australia model] ..... 240 V AC, 50 Hz
  [Korea model] ..... 220 V AC, 60 Hz
  [China model] ..... 220 V AC, 50 Hz
  [U.K., Russia, and Europe models] .....230 V AC, 50 Hz
  [Asia and General models]
  ..... 110-120/220–240 V AC, 50/60 Hz
- Power Consumption
  [U.S.A. and Canada models] ..... 240 W/320 VA
  [Other models] ..... 240 W
- Standby Power Consumption
  [Except Asia and General models] ..... 0.8 W
- Maximum Power Consumption
  [Asia and General models]
  5ch, 10%/THD ..... 530 W
- Dimensions (W x H x D)..... 435 x 151 x 318 mm
  (17-1/8" x 5-15/16" x 12-1/2")
- Weight ..... 8.0 kg (17 lbs 10 oz)

* Specifications are subject to change without notice.

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"**ⒶSTANDBY/ON**" or "**③DVD**" (example) indicates the name of the parts on the front panel or the remote control. Refer to the attached sheet or the pages at the end of this manual for the information about each position of the parts.

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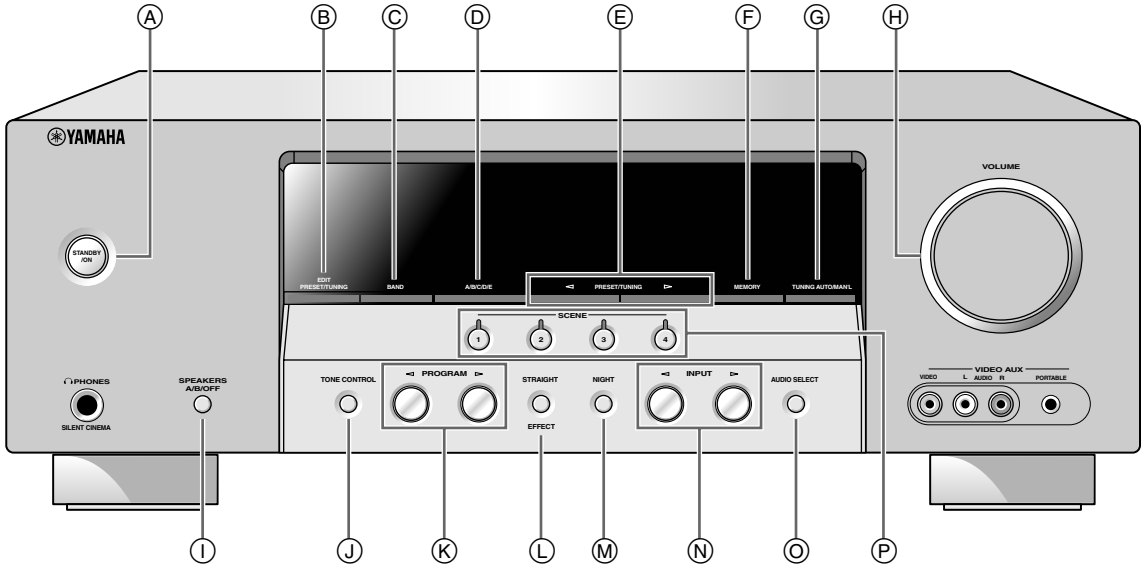
■ Front panel



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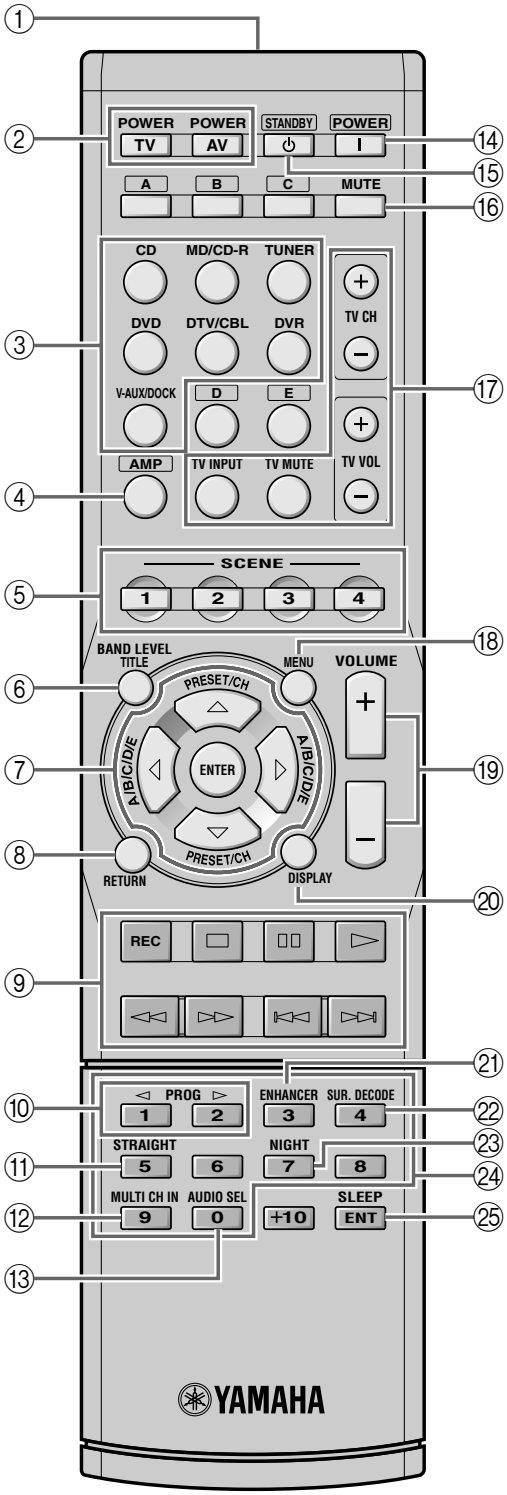
■ Remote control



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List of remote control codes

Blu-ray player

Samsung	2137

CD player

Yamaha	5000, 5013

CD Recorder

Yamaha	5001

DVD

Acoustic Solutions	2078
Aiwa	2055, 2100
Akai	2096
Akura	2076
Alba	2078, 2086
Apex	2027, 2049
Awa	2078
Axion	2078
Brainwave	2096
Brandt	2073, 2085
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Dansai	2096
Daytek	2080, 2089
DEC	2075
Denon	2030, 2102, 2103
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Diamond	2074
DK Digital	2094
Dual	2078
D-Vision	2096
DVX	2074
Elta	2096
Euroline	2096
Funai	2052, 2058
Global Solutions	2074
Global Sphere	2074
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Grundig	2077, 2098
H&B	2075
Haaz	2074
HE	2078
Hitachi	2032, 2072
Home Electronics	2078
Innovation	2072
Irradio	2134
JDB	2078
JVC	2033, 2045, 2053, 2073, 2099
Kenwood	2030, 2097
Kingavon	2075
Koda	2075
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Lenco	2075
LG	2084, 2087
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Limit	2074
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